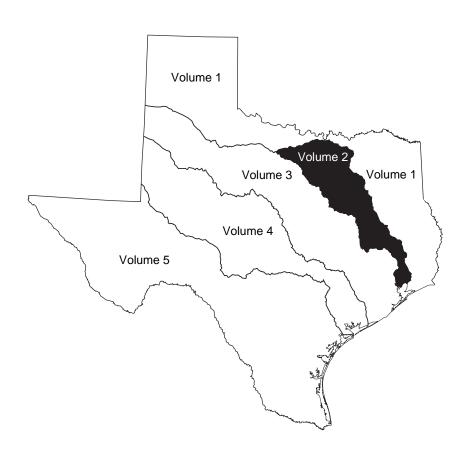
# Water Resources Data Texas Water Year 2002

**Volume 2. Trinity River Basin** 

By S.C. Gandara

Water-Data Report TX-01-2





Prepared in cooperation with the State of Texas and with other agencies

# UNITED STATES DEPARTMENT OF THE INTERIOR

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### **PREFACE**

This edition of the annual hydrologic data report of Texas is one of a series of annual reports that document hydrologic data collected from the U.S. Geological Survey's collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by Federal, State, local agencies, and the private sector for developing and managing land and water resources in Texas which are contained in 6 volumes:

Volume 1.	Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, and
	Intervening Coastal Basins

Volume 2. Trinity River Basin

Volume 3. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening

Coastal Basins

Volume 4. Colorado River Basin, Lavaca River Basin and Intervening Coastal Basins

Volume 5. Guadalupe River Basin, Nueces River Basin, Rio Grande Basin, and Intervening Coastal

Basins

Volume 6. Ground-Water Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had the primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, most of the data were collected, computed, and processed from Subdistrict and Field Offices. The following supervised the collection, processing, and tabulation of the data:

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# GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Type of data collected: (d) discharge; (c) chemical; (b) biological; (t) water temperature; (s) sediment; (e) elevation, gage heights, or contents; (p) precipitation.]

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WESTERN GULF OF MEXICO BASINS TRINITY RIVER BASIN		
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Lost Creek:	000.2000	٥.
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Big Sandy Creek:		
Lake Amon G. Carter near Bowie (e)	08043700	42
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Benbrook Lake near Benbrook (e)	08046500	62
Clear Fork Trinity River near Benbrook (d)	08047000	66
Mary's Creek at Benbrook (d)	08047050	68
Clear Fork Trinity River at Fort Worth (d)	08047500	70
West Fork Trinity River at Fort Worth (d)	08048000	72
West Fork Trinity River at Beach Street, Fort Worth (d) (c) (t)	08048543	74
Village Creek:		
Village Creek at Everman (d) (c) (t)	08048970	84
Lake Arlington at Arlington (c) (t)	08049200	88
West Fork Trinity River at Grand Prairie (d) (c) (t) (p)	08049500	94
Mountain Creek near Venus (d)	08049580	108
Walnut Creek near Mansfield (d)	08049700	110
Joe Pool Lake near Duncanville (e)	08049800	112
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Jordan Creek:		
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Prairie Creek at U.S. Highway 175, Dallas (d)	08057445	194
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Trinity River:Continued		
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Post Oak Creek:		
Halbert Lake near Corsicana (e)		288
Richland-Chambers Reservoir near Kerens (e)		290
Tehuacana Creek near Streetman (d) (c) (t)		296
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Upper Keechi Creek near Oakwood (d)	08065200	302
Big Elkhart Creek:		
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The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Texas have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (\*) after the station number are currently operated as partial-record stations. A pound sign (#) after a station indicates a tempoary discontinuance to redefine ratings. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the title page of this report.

[Letters after station name designate the type of data collected: (d) discharge, (e) elevation (stage only).]

		Drainaga	Period
Station name	Station	Drainage area	of record
Station name	number	(mi <sup>2</sup> )	(water years)
Punta De Agua Creek near Channing (d)	07227448	3,568	1968-73
East Cheyenne Creek Tributary near Channing (e)	07227460	1.60	1965-74
Canadian River at Tascosa (d)	07227470	18,536	1969-77
Tecovas Creek Tributary near Bushland (e)	07227480	2.5	1966-74
Dixon Creek near Borger (d)	07227920	134	1974-89
Palo Duro Creek near Canyon (e)	07229700	982	1942-54
Palo Duro Creek near Spearman (d)	07233500#	1,076	1954-79, 1999-2001
White Woman Creek Tributary near Darrouzett (e)	07234150	4.03	1966-74
Tierra Blanca Creek above Buffalo Lake near Umbarger (d)	07295500	1,968	1939-54,
			1967-73
Buffalo Lake near Umbarger (e)	07296000	2,075	1938-54
Tierra Blanca Creek below Buffalo Lake near Umbarger (d)	07296100	2,075	1967-73
Prairie Dog Town Fork Red River near Canyon (d)	07297500	3,369	1924-26,
Middle Tele Description Tells (c)	07207020	212	1938-49
Middle Tule Draw near Tulia (e) North Tule Draw at Reservoir near Tulia (d)	07297920 07298000	313 189	1967-74 1939-40,
North Tule Draw at Reservoir hear Tulia (u)	07298000	109	1939-40,
Rock Creek Tributary near Silverton (d)	07298150	13.7	1941-73
Tule Creek near Silverton (d)	07298200	1,150	1964-86
Prairie Dog Town Fork Red River near Brice (d)	07298500	6,082	1939-44,
Traine Dog Town Fork Red River near Drice (d)	07270300	0,002	1949-51,
			1960-63
Mulberry Creek near Brice (d)	07299000	534	1949-51
Prairie Dog Town Fork Red River near Lakeview (d)	07299200	6,792	1963-80
Little Red River near Turkey (d)	07299300	139	1968-81
Prairie Dog Town Fork Red River near Estelline (d)	07299500	7,293	1924-25,
			1938-47
Prairie Dog Town Fork Red River below Mountain Creek near Estelline (e)	07299505	7,341	1974-77
Prairie Dog Town Fork Red River above Jonah Creek near Estelline (e)	07299510	7,533	1974-77
Jonah Creek at Weir near Estelline (d)	07299512	65.50	1974-82
Jonah Creek below Weir near Estelline (d)	07299514	66.60	1974-76
Jonah Creek at mouth near Estelline (d)	07299516	76	1974-76
Salt Creek near Estelline (d)	07299530	142	1974-79
Buck Creek near Wellington (e)	07299550	210	1951-64
Red River near Quanah (d)	07299570	8,321	1960-82
North Groesbeck Creek Tributary near Kirkland (d)	07299575	0.16	1966-74
Wanders Creek at Odell (e)	07299750	199	1949-50, 1952-89
Salt Fork Red River near Clarendon (d)	07299850	457	1960-64
Lelia Lake Creek near Hedley (e)	07299900	86	1951-70
Salt Fork Red River near Hedley (e)	07299930	744	1951,
Suit Fork Real River near Fleatey (e)	07277730	,	1956-62
Oklahoma Draw Tributary near Hedley (e)	07299940	1.1	1965-74
Sweetwater Creek near Wheeler (e)	07301400	164	1951-64
Doodlebug Creek near Wheeler (e)	07301405	0.19	1967-73
Elm Creek near Shamrock (e)	07303300	N/A	1947-89
Quitaque Creek near Quitaque (d)	07307500	293	1945-59
North Pease River near Childress (d)	07307600	1,434	1973-79
North Pease River near Kirkland (e)	07307660	N/A	1973-79
Roaring Springs near Roaring Springs (e)	07307700	N/A	1937,
			1943-95
Cottonwood Creek Tributary near Afton (e)	07307720	0.68	1967-74

Drainage Period Station name Station area of record number (mi<sup>2</sup>)(water years) ..... Middle Pease River near Paducah (d) 07307750 1.086 1973-79 Middle Pease River near Paducah (d) 07307760 1,123 1980-82 1973-79 Middle Pease River near Kirkland (e) 07307780 1,250 Canal Creek near Crowell (e) 07307950 49.0 1968-70, 1978-79 Pease River near Crowell (d) 07308000 3.037 1924-47 Plum Creek near Vernon (e) 07308220 4.99 1967-74 China Creek near Electra (e) 07308400 37 1967-76 North Fork Wichita River near Crowell (d) 07311622 591 1971-76 Middle Fork Wichita River near Truscott (d) 07311648 161 1971-76 South Fork Wichita River near Guthrie (d) 07311780 239 1952-54, 1956-57 1971-76 South Fork Wichita River at Ross Ranch near Benjamin (d) 07311790 499 1971-79 Beaver Creek Tributary near Crowell (e) 07312140 3.43 1966-74 Wolf Creek near Iowa Park (e) 07312300 8.5 1966-74 North Fork Little Wichita River Tributary near Archer City (e) 0.10 1966-74 07314200 Little Wichita River near Henrietta (d) 07315000 1,037 1953-79 Little Wichita River near Ringgold (d) 07315400 1,350 1959-65 Farmers Creek near Saint Jo (e) 07315550 0.82 1966-74 Mineral Creek near Sadler (d) 1968-77 07316200 26 Sandy Creek near Sadler (e) 07316230 24 1968-74 Lake Texoma near Denison (e) 07331500 39,719 1942-93, 2000 Bois D'Arc Creek near Randolph (d) 07332600 72 1963-85 Cooper Creek near Bonham (e) 07332602 6.21 1966-74 Sanders Creek near Chicota (d) 07335400 175 1968-86 Little Pine Creek near Kanawha (d) 07336750 75.40 1969-80 Pecan Bayou near Clarksville (d) 07336800 100 1962-77 Red River near DeKalb (d) 07336820 47.348 1967-98 McKinney Bayou near Leary (e) 07336940 3.33 1966-73 Barkman Creek near Leary (e) 07336950 1958-64 31.5 Nelson Branch near Leonard (e) 07342450 0.22 1966-74 South Sulphur River near Commerce (d) 07342470 189 1980-91 1964-74 Cuthand Creek near Bogata (d) 07343300 69 Dial Branch near Bagwell (e) 07343350 1.00 1966-74 White Oak Creek near Mt. Vernon (e) 07343480 434 1966, 1969-75 White Oak Creek below Talco (d) 07343800 579 1938-50 Buck Creek near Cookville (e) 07343900 0.78 1966-74 Sulphur River near Darden (d) 07344000 2,774 1924-56 Sulphur River near Texarkana (d) 07344210 1980-85 3,443 Big Cypress Creek near Winnsboro (d) 07344482 27.2 1974-92 Dragoo Creek near Mt. Pleasant (e) 07344490 4.27 1967-74 Williamson Creek near Pittsburg (e) 07344600 7.11 1967-74 Boggy Creek near Daingerfield (d) 07345000 72 1943-77 Ellison Creek Reservoir near Lone Star (e) 07345500 37 1943-62. 1974-89 Cypress Creek Tributary near Jefferson (e) 07346010 0.51 1966-74 Taylor Branch near Smithland (e) 07346072 1966-74 0.73 Big Cypress Creek near Karnack (e) 07346085 2.174 1980-85 Frazier Creek near Linden (d) 07346140 48.0 1965-91 Sabine River near Emory (d) 08017500 888 1952-73 Burnett Branch near Canton (e) 08017700 0.33 1966-74 1968-73 Grand Saline Creek near Grand Saline (d) 08018200 91.4 Burke Creek near Yantis (d) 08018730 33.10 1979-89 Dry Creek near Quitman (e) 1968-75 08018950 63.6 Lake Winnsboro near Winnsboro (d) 08019300 27.1 1962-86 Big Sandy Creek near Hawkins (e) 08019430 196 1980-82 Prairie Creek near Gladewater (d) 08020200 48.90 1968-77

Station name	Station	Drainage area	Period of record
J. Marie C.	number	(mi <sup>2</sup> )	(water years)
Sabine River near Longview (d)	08020500	2,947	1904-07,
			1924-33
Rabbit Creek at Kilgore (d)	08020700	75.80	1964-77
Grace Creek Tributary at Longview (e)	08020800	5.05	1967-74
Mill Creek near Henderson (d)	08020960	20.30	1979-81
Mill Creek near Longview (d)	08020980	47.90	1979-81
Tiawichi Creek near Longview (d)	08020990	62.70	1978-81
Cherokee Bayou near Elderville (d)	08021000	120	1940-49
Lake Cherokee near Longview (e)	08021500	158	1951-83
Sabine River near Tatum (d)	08022000	3,493	1939-78,
(e)	00022010	0.46	1979-82
Redmon Branch near Hallesville (e)	08022010	0.46	1966-74
Eight Mile Creek near Tatum (e)	08022050	106	1962-71
Martin Creek near Tatum (d)	08022070	148	1974-96
Martin Creek near Beckville (e)	08022080	192	1962-71
Murvaul Bayou near Gary (d)	08022300	134	1958-83
Socagee Creek near Carthage (d)	08022400	82.60	1962-73
Tenaha Creek near Shelbyville (d)	08023200	97.80	1952-81
Dorsey Branch near Milam (e)	08024290	0.70	1967-74
Patroon Bayou near Milam (e)	08024300	130	1952-54,
	00004400	- <b>-</b>	1959-63
Sabine River near Milam (d)	08024400	6,508	1924-25,
			1939-68
Palo Gaucho Bayou near Hemphill (d)	08024500	123	1952-65
Housen Bayou near Yellowpine (e)	08025250	92.1	1952-54,
			1957,
			1959-63
Sandy Creek near Yellowpine (e)	08025300	135	1952-54,
			1957,
			1959-63
Mill Creek near Burkeville (d)	08025307	17.6	1974-79
Little Cow Creek below McGraw Creek near Burkeville (e)	08026500	112	1952-58
Moore Branch near Newton (e)	08028505	3.77	1967-74
Nichols Creek near Buna (e)	08029750	54.4	1959-64
Cypress Creek near Buna (d)	08030000	69.20	1952-83
Adams Bayou Tributary near Deweyville (e)	08030700	12.4	1966-74
Cow Bayou near Mauriceville (d)	08031000	83.30	1952-86
Bethlehem Branch near Van (e)	08031100	1.09	1966-74
Kickapoo Creek near Brownsboro (d)	08031200	232	1962-89
Neches River near Reese (d)	08031500	851	1924-27
Hurricane Creek Tributary near Palestine (e)	08032100	0.39	1966-74
One Arm Creek near Maydelle (e)	08032250	6.01	1967-74
Squirrel Creek near Elkhart (e)	08032300	1.57	1967-74
Neches River near Alto (d)	08032500	1,945	1944-79
Piney Creek Tributary near Pennington (e)	08033250	1.17	1967-74
Piney Creek near Groveton (d)	08033300	79	1962-89
Shawnee Creek Tributary near Huntington (e)	08033450	0.52	1966-74
Greenwood Creek Tributary near Colmesneil (e)	08033480	0.15	1966-74
Bowles Creek near Selman City (e)	08033600	14.5	1968-85
Striker Creek near Summerfield (d)	08033700	146	1941-49
Striker Creek Reservoir near New Salem (e)	08033800	148	1941-49
East Fork Angelina River near Cushing (d)	08033900	158	1964-89
Mud Creek at Ponta (d)	08035000	475	1924-27
Angelina River near Lufkin (d)	08037000	1,600	1924-34,
			1939-79
Bayou Lanana at Nacogdoches (d)	08037050	31.3	1965-86,
			1988-93
Gingham Branch near Mt. Enterprise (e)	08037300	0.90	1967-74
Arenoso Creek near San Augustine (d)	08037500	75.30	1938-40
Angelina River near Zavalla (d)	08038500	2,892	1952-65
Ayish Bayou at San Augustine (d)	08039000	15.80	1924-25

		Drainage	Period	
Station name	Station	area	of record	
Simoniano	number	(mi <sup>2</sup> )	(water years)	
Angelina River at Horger (d)	08039500	3,486	1928-51,	
8		.,	1967-73	
Little Sandy Creek Tributary near Jasper (e)	08039900	0.46	1967-74	
Drakes Branch near Spurger (e)	08041400	5.03	1967-74	
West Fork Double Bayou near Anahuac (e)	08042550	4.43	1967-74	
North Creek SWS No. 28-A near Jermyn (e)	08042650	6.82	1972-80	
North Creek near Jacksboro (d)	08042700	21.60	1956-80	
Beans Creek at Wizard Wells (e)	08042900	29.60	1993-95	
West Fork Trinity River at Bridgeport (d)	08043100	1,113	1984-89	
West Fork Trinity River at Bridgeport (d) Big Sandy Creek near Bridgeport (d)	08043500 08044000	1,147 333	1908-30 1937-95	
Garrett Creek near Paradise (e)	08044135	52.5	1992-95	
Salt Creek near Paradise (e)	08044140	52.7	1992-95	
Walker Creek near Boyd (e)	08044200	2.95	1965-74	
West Fork Trinity River at Lake Worth, Fort Worth (d)	08045500	2,069	1924-34	
Clear Fork Trinity River near Aledo (d)	08046000	251	1947-75	
Marine Creek at Fort Worth (d)	08048500	16.80	1950-58	
Sycamore Creek at I.H. 35W, Fort Worth (d)	08048520	17.70	1970-76	
Sycamore Creek Trib. above Seminary South, Fort Worth (d)	08048530	0.97	1970-76	
Sycamore Creek Trib. at I.H. 35W, Fort Worth (d)	08048540	1.35	1970-76	
Dry Branch at Fain Street at Fort Worth (d)	08048600	2.15	1969-76	
Big Fossil Creek at Haltom City (d)	08048800*	52.8	1959-73	
Little Fossil Creek at I.H. 820, Fort Worth (e)	08048820	5.64	1969-73	
Little Fossil Creek at Mesquite Street, Fort Worth (d)	08048850	12.30	1969-76	
Deer Creek Tributary near Crowley (e)	08048900	5.86	1967-74	
Village Creek at Kennedale (d)	08048980	100	1986-89	
Village Creek near Handley (d)	08049000	126	1925-30	
Big Bear Creek near Grapevine (d) Trice Branch at DEW Aimout near Euless (d)	08049550	29.6	1967-79	
Trigg Branch at DFW Airport near Euless (d) Mountain Creek near Cedar Hill (d)	08049565 08049600	1.73 119	1983-87 1961-84	
Mountain Creek above Duncanville (e)	08049850	224	1986-87	
Mountain Creek near Duncanville (e)	08049800	225	1971-90	
Mountain Creek near Grand Prairie (d)	08050000	273	1925-33	
Elm Fork Trinity River SWS 6-O near Muenster (e)	08050200	0.77	1957-73	
Elm Fork Trinity River near Muenster (d)	08050300	46	1957-73	
Elm Fork Trinity River near Sanger (d)	08050500	381	1949-85	
Isle Du Bois Creek near Pilot Point (d)	08051000	266	1949-85	
Elm Fork Trinity River near Pilot Point (d)	08051130	692	1985-92	
Elm Fork Trinity River above Aubrey (e)	08051190	684	1981-89	
Elm Fork Trinity River near Denton (d)	08052000	1,084	1924-27	
Lake Dallas near Lake Dallas (e)	08052500	1,165	1929-57	
Little Elm Creek SWS #10 near Gunter (e)	08052630	2.10	1966-72	
Little Elm Creek near Celina (d)	08052650	46.70	1966-76	
Hickory Creek at Denton (d)	08052780	129	1985-87	
Indian Creek at Hebron Parkway at Carrollton (d)	08053010	15.0	1987-90	
Furneaux Creek at Josey Lane at Carrollton (d)	08053030	4.10	1987-90	
Hutton Branch at Broadway at Carrollton (e) Jones Valley Creek Tributary near Forestburg (e)	08053090 08053100	9.10 1.70	1987-90 1966-74	
Denton Creek near Roanoke (d)	08054000	621	1924-28,	
	08034000	021	1939-55	
Gamble Branch near Argyle (e)	08054200	0.50	1965-74	
Denton Creek near Grapevine (d)	08055000	705	1948-91	
Joe's Creek at Royal Lane, Dallas (e)	08055580	1.94	1973-78	
Joes Creek near Dallas (e)	08055600	7.4	1964-79	
Bachman Branch at Dallas (d)	08055700	10	1964-79	
Turtle Creek at Dallas (d)	08056500	7.98	1952-80,	
Coombs Creek at Sulvan Avenue Delles (a)	00057020	175	1984-91 1965-78	
Coombs Creek at Sylvan Avenue, Dallas (e) Cedar Creek at Bonnie View Road, Dallas (e)	08057020 08057050	4.75 9.42	1965-78 1965-78	
White Rock Creek at Keller Springs Road, Dallas (d)	08057100	29.40	1961-79	
mine Rock Creek at Rener Springs Road, Danas (U)	0003/100	47.4U	1701-77	

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of record (water years)
Spenky Prepal at McCallym Lana at Dallac (a)	08057120	6.77	 1962-78
Spanky Branch at McCallum Lane at Dallas (e) Rush Branch at Arapaho Road, Dallas (e)	08057120	1.22	1973-78
Newton Creek at Interstate Highway 635, Dallas (e)	08057135	5.91	1974-78
Cottonwood Creek at Forest Lane, Dallas (e)	08057140	8.50	1962-78
Floyd Branch at Forrest Lane, Dallas (e)	08057160	4.17	1962-78
White Rock Creek at White Rock Lake, Dallas (d)	08057300	100	1963-79
Ash Creek at Highland Road, Dallas (e)	08057320	6.92	1963-78
Forney Creek at Lawnview Avenue, Dallas (e)	08057340	1.84	1963-72
White Rock Creek at Scyene Road, Dallas (d)	08057400	122	1963-79
Trinity River below Dallas (d)	08057410	6,278	1956-98
Elm Creek at Seco Boulevard, Dallas (e)	08057415	1.25	1973-78
Fivemile Creek at Kiest Boulevard, Dallas (e)	08057418	7.65	1974-78
Fivemile Creek at US Highway 77 West, Dallas (e)	08057420	14.30	1965-78
Woody Branch at US Highway 77 West, Dallas (e) Fivemile Creek at Lancaster Road, Dallas (e)	08057425 08057430	10.30 37.90	1965-78 1965-78
White Branch at Interstate Highway 635, Dallas (e)	08057440	2.53	1974-78
Tenmile Creek at State Highway 342 at Lancaster (d)	08057440	52.80	1970-79
Honey Creek SWS #11 near McKinney (e)	08057500	2.14	1952-73
Honey Creek SWS #12 near McKinney (e)	08058000	1.26	1952-77
Honey Creek near McKinney (d)	08058500	39	1951-73
East Fork Trinity River near McKinney (d)	08059000	190	1949-75
Arls Branch near Westminster (e)	08059200	0.52	1965-74
Sister Grove Creek near Princeton (d)	08059500	113	1949-75
East Fork Trinity River above Pilot Grove near Lavon (d)	08060000	324	1949-53
East Fork Trinity River near Lavon (d)	08061000	773	1954-89
East Fork Trinity River near Rockwall (d)	08061500	840	1924-54
Duck Creek at Buckingham Road, Garland (e)	08061620	8.05	1969-76
Duck Creek near Garland (d)	08061700	31.6	1958-93
South Mesquite Creek at State Highway 352, Mesquite (e)	08061920	13.40	1969-76
South Mesquite Creek at Mercury Road near Mesquite (d) Cedar Creek Reservoir Spillway Outflow near Trinidad (d)	08061950 08062650	23 1,007	1969-79 1966-82
Cedar Creek near Kemp (d)	08062800	189	1963-87
Bachelor Creek near Terrell (e)	08062850	13.0	1967-74
Kings Creek near Kaufman (d)	08062900	233	1963-87
Lacey Fork near Mabank (d)	08062980	118	1983-84
Cedar Creek near Mabank (d)	08063000	733	1939-66
South Twin Creek near Eustace (d)	08063003	27.40	1983-84
Red Oak Branch near Eustace (e)	08063005	0.90	1966-74
Cedar Creek at Trinidad (d)	08063020	1,011	1965-71
Briar Creek Tributary near Corsicana (e)	08063180	0.72	1966-74
Pin Oak Creek near Hubbard (d)	08063200	17.60	1956-72
Richland Creek near Richland (d)	08063500	734	1939-88
Alvarado Branch near Alvarado (e)	08063550	0.84	1966-74
Kings Branch near Reagor Springs (e) Chambers Creek near Corsicana (d)	08063620 08064500	0.62 963	1966-74 1939-84
Richland Creek near Fairfield (d)	08064600	1,957	1972-83
Saline Branch Tributary near Bethel (e)	08064630	0.22	1967-74
Catfish Creek near Tennessee Colony (d)	08064800	207	1962-89
Mayes Branch near Latexo (e)	08065320	4.26	1967-74
Trinity River near Midway (d)	08065500	14,450	1939-71
Caney Creek near Madisonville (d)	08065700	112	1963-77
Nelson Creek near Riverside (e)	08065950	86.4	1949, 1965,
Harmon Creek near Huntsville (e)	08065975	89.2	1970-74 1973-81
West Carolina Creek near Oakhurst (e)	08066050	89.2 15.2	1973-81 1949,
west Caronna Citer near Oakhuist (e)	00000030	13.4	1949, 1966-73
White Rock Creek near Trinity (e)	08066100	222	1974-85
White Rock Creek near Trinity (e)	08066130	228	1966-74
Tantaboque Creek near Trinity (e)	08066140	61.3	1966-73
Caney Creek near Groveton (e)	08066145	41.4	1966-73

Station name  Brushy Creek near Onalaska (d) Rocky Creek near Onalaska (e) Livingston Reservoir outflow weir near Goodrich (d) Long King Creek near Goodrich (d) Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e) Devers Conel near Liberty (d)	Station number 	area (mi²)	of record (water years)
Rocky Creek near Onalaska (e) Livingston Reservoir outflow weir near Goodrich (d) Long King Creek near Goodrich (d) Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)	08066150 08066180 08066191	29.1	(water years)
Rocky Creek near Onalaska (e) Livingston Reservoir outflow weir near Goodrich (d) Long King Creek near Goodrich (d) Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)	08066180 08066191		
Livingston Reservoir outflow weir near Goodrich (d) Long King Creek near Goodrich (d) Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)	08066191	40.6	1966-70
Long King Creek near Goodrich (d) Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)		40.0	1966-73
Bluff Creek Tributary near Livingston (e) Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)	08066210	16,583	1969-94
Big Creek near Shepherd(e) Gaylor Creek near Moss Hill (e)		220	1972-81
Gaylor Creek near Moss Hill (e)	08066280	0.62	1965-74
•	08066400	38.80	1966-89
	08066800	32.3	1966-73
Devers Canal near Liberty (d)	08067080	N/A	1972-82
Goose Creek near McNair (e)	08067520	6.7	1963-65,
Welch Branch near Huntsville (e)	08067550	2.35	1965-74
Lake Conroe near Montgomery (e)	08067580	445	1973-76
Lake Conroe at Outflow Weir near Conroe (d)	08067610	445	1974, 1977-89
Caney Creek near Dobbin (d)	08067700	40.40	1963-65
Landrum Creek Tributary near Montgomery (e)	08067750	0.13	1965-74
Lake Creek near Conroe (e)	08067900	291	1969-89
West Fork San Jacinto River near Porter (e)	08068100	970	1970-76
Mill Creek Tributary near Dobbin (e)	08068300	4.07	1967-73
Swale No. 8 at Woodlands (e)	08068438	0.55	1975-76,
			1980-88
Spring Creek at Spring (d)	08068520	419	1975-95
Spring Creek near Humble (e)	08068600	435	1971-76
Cypress Creek at Sharp Road near Hockley (d)	08068700	80.7	1975-85
Cypress Creek near Cypress (e) Cypress Creek at Stuebner-Airline Road near Westfield (d)	08068750* 08068900*	138 248	1971-76 1982-87
Cypress Creek near Humble (e)	08069200	319	1971-76
West Fork San Jacinto River near Humble (d)	08069500	1,741	1929-54
Bear Creek near Cleveland (e)	08069850	1.46	1967-73
Caney Creek near New Caney (e)	08070600	178	1970-76
Peach Creek near New Caney (e)	08071100	155	1970-76
Tarkington Bayou near Dayton (e)	08071200	142	1964-76
Luce Bayou near Huffman (e)	08071300	226	1971-76
San Jacinto River near Huffman (d)	08071500	2,800	1937-53
Buffalo Bayou at Clodine (e)	08072400	84.2	1974-85
Bettina Street Ditch at Houston (e)	08073630	1.37	1979-85
Stony Brook Street Ditch at Houston (e)	08073750	0.50	1967-72
Bering Ditch at Woodway Drive, Houston (e)	08073800	2.77	1965-73
Cole Creek at Guhn Road at Houston (e)	08074100	7.05	1964-72
Bingle Road Storm Sewer at Houston (e) Cole Creek at Deihl Road at Houston (d)	08074145 08074150*	0.21 7.50	1980-88 1964-86
Brickhouse Gully at Clarblak Street at Houston (e)	08074200	2.56	1965-83
Brickhouse Gully at Costa Rica Street at Houston (d)	08074250*	11.4	1964-81
Lazybrook Street Storm Sewer, Houston (e)	08074400	0.13	1978-88
Little White Oak Bayou at Houston (e)	08074550	20.9	1971-79
Buffalo Bayou at Main St., Houston (d)	08074600*	469	1962-94
Buffalo Bayou at McKee Street, Houston (d)	08074610	469	1992-2000
Buffalo Bayou at 69th Street, Houston (e)	08074700	476	1961-86
Brays Bayou at Addicks-Clodine Rd., Houston (e)	08074750	0.87	1974-77
Brays Bayou at Alief Road, Alief (e)	08074760*	12.9	1977-85
Keegans Bayou at Keegans Road near Houston (e)	08074780*	7.47	1964-71
Keegans Bayou at Roark Road near Houston (d)	08074800*	13.0	1964-85
Bintliff Ditch at Bissonnet Street, Houston (e)	08074850	4.38	1968-82
Willow Waterhole Bayou at Landsdowne Street, Houston (e)	08074900	3.81	1965-72
Hummingbird Street Ditch at Mullins Street, Houston (e)	08074910	0.32	1979-84
Brays Bayou at Scott Street, Houston (e)	08075100	106	1971-81
Sims Bayou at Carlsbad Street, Houston (e)	08075300	3.81	1964-72
Sims Bayou at MLK Blvd., Houston (e)	08075470	48.4	1978-89
Berry Bayou at Gilpin Street, Houston (e)  Barry Bayou Tributary at Globa Street, Houston (e)	08075550	2.87	1965-84
Berry Bayou Tributary at Globe Street, Houston (e) Berry Bayou at Forest Oaks Street, Houston (e)	08075600 08075650*	1.58 10.7	1965-72 1968-82

Station name	Station	Drainage area	Period of record
	number	(mi <sup>2</sup> )	(water years)
Berry Bayou at Galveston Road, Houston (e)	08075700	4.86	1965-72
Huntington Bayou Tributary at Cavalcade Street, Houston (e)	08075750	1.20	1965-72
Huntington Bayou at Falls Street, Houston (e)	08075760	2.75	1964-84
Halls Bayou at Deertrail Street at Houston (e)	08076200	8.69	1965-84
Carpenters Bayou at Cloverleaf (e)	08076900	25.8	1964,
			1971-93
Clear Creek near Pearland (d)	08077000	38.8	1944-45,
			1946-60,
			1963-94
Clear Creek Tributary at Hall Road, Houston (e)	08077100	1.31	1965-86
Clear Creek at Friendswood (d)	08077540	99.6	1994-97
Cowart Creek near Friendswood (e)	08077550	18	1965-74
Clear Creek near Friendswood (e)	08077600	126	1966-94
Armand Bayou near Genoa (e)	08077620	18.2	1968,
			1971-73
Highland Bayou at Hitchcock (e)	08077700	15.6	1963-82
Highland Bayou Tributary near Texas City (e)	08077750	1.97	1966-73
Highland Bayou near Texas City (e)	08077780	20.8	1965-88
Flores Bayou near Danbury (e)	08078700	23.3	1967-72
Oyster Creek near Angleton (d)	08079000	171	1945-80
North Fork Double Mountain Fork Brazos River at Lubbock (d)	08079500	5,300	1940-49,
North Fork Double Mountain Fork Brazos River above	08079530	29.3	1952-54,
Buffalo Springs nr Lubbock (e)			1957,
			1962,
			1967-76
Buffalo Springs Lake near Lubbock (e)	08079550	236	1967-77
Barnum Springs Draw near Post (e)	08079570	4.99	1965-73
North Fork Double Mountain Fork Brazos River near Post (d)	08079575	438	1984-93
Rattlesnake Creek near Post (e)	08079580	2.75	1966-74
Double Mountain Fork Brazos River near Rotan (d)	08080000	8,536	1950-51
Guest-Flowers Draw near Aspermont (e)	08080510	3.02	1965-74
McDonald Creek near Post (d)	08080540	103	1966-78
Running Water Draw at Plainview (d)	08080700	1,291	1939-53,
	00000750	27.5	1957-78
Callahan Draw near Lockney (e)	08080750	37.5	1966-77
White River near Crosbytown (e)	08080800	529 520	1951-64
White River below falls near Crosbytown (e)	08080900	529	1951-64
Salt Fork Brazos River at Farm Road 1081 near Clairemont (e)	08080916	1,135	1968-77
Red Mud Creek near Spur (e)	08080918	65.1	1967-74
Salt Fork Brazos River at State Highway 208 near Clairemont (e)	08080940	1,357	1968-77
Duck Creek near Girard (d) Salt Fork Brazos River at U.S. Highway 380 near Jayton (e)	08080950	431	1965-89
The state of the s	08080959	1,797	1968-77
Salt Fork Brazos River near Peacock (d)	08081000	4,619	1950-51,
Chart Custom Cusely at mouth many Javeton (a)	00001050	10 1	1965-86
Short Croton Creek at mouth near Jayton (e) Croton Creek below Short Croton Creek near Jayton (e)	08081050 08081100	18.1 250	1959-82 1959-82
Croton Creek near Jayton (d)	08081100	290	1959-82
Salt Croton Creek at Weir D near Aspermont (e)	08081200	55.5	1957-76
Haystack Creek at Weir E near Aspermont (e)	08081450	15.1	1957-77
Salt Croton Creek near Aspermont (d)	08081500	64.30	1957-77
Stinking Creek near Aspermont (d)	08081300	88.80	1966-83
North Croton Creek near Knox City (d)	08082180	251	1965-86
North Elm Creek near Throckmorton (e)	08082180	3.58	1965-77
Elm Creek near Profitt (e)	08082900	275	1969-85
Brazos River near Graham (d)	08082930	16,830	1916-20
Clear Fork Brazos River at Hawley (d)	08083240	1,416	1968-89
Mulberry Creek near Hawley (d)	08083245	205	1968-89
Elm Creek near Abilene (d)	08083243	133	1964-79
Little Elm Creek near Abilene (d)	08083300	39.10	1964-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene (d)	08083470	119	1971-84
Cough Crock at Authoric (u)	00003470	119	17/1-04

Station name	Station	Drainage area	Period of record
Station name	number	(mi <sup>2</sup> )	(water years)
Paint Creek near Haskell (d)	08085000	914	1950-51
Humphries Draw near Haskell (e)	08085300	3.51	1965-77
Clear Fork Brazos River at Crystall Falls (d)	08086000	4,323	1922-29
Hubbard Creek near Sedwick (d)	08086015	128	1964-66
Hubbard Creek at Highway 380 near Moran (e)	08086020	152	1963-76
Deep Creek near Putnam (e)	08086030	33.8	1963-66
Brushy Creek near Putnam (e)	08086040	27.6	1963-66
Mexia Creek near Putnam (e) Deep Creek at Moran (d)	08086045 08086050	67.0 228	1963-66 1963-75
Hubbard Creek near Albany (d)	08086100	454	1962-75
Salt Prong Hubbard Creek below Lake McCarty near Albany (e)	08086110	45.5	1963-66
Salt Prong Hubbard Creek at U.S. 380 near Albany (d)	08086120	61	1964-68
Cook Creek near Albany (e)	08086130	11.3	1963-76
North Fork Hubbard Creek near Albany (d)	08086150	39.3	1963-90
Salt Prong Hubbard Creek near Albany (d)	08086200	115	1962-63
Snailum Creek near Albany (d)	08086210	22.90	1964-66
Big Sandy Creek near Eolian (e)	08086220	91.4	1963-76
Battle Creek near Putnam (e)	08086230	32.0	1963-66
Battle Creek near Moran (d)	08086235	108	1967-68
Battle Creek near Eolian (e)	08086240	137	1963-66
Pecan Creek at FM 1853 near Eolian (e)	08086250	6.95	1963-66
Pecan Creek near Eolian (d)	08086260	26.40	1967-75
Big Sandy Creek near Breckenridge (e)	08086300	288	1962-75
Hubbard Creek near Breckenridge (d)	08086500	1,089	1955-86
Clear Fork Brazos River near Crystal Falls (e)	08087000	5,658	1916-20,
CI E I D D' EI' 'II (I)	00007200	5.607	1928-51
Clear Fork Brazos River near Eliasville (d)	08087300	5,697	1916-20,
			1924-25, 1928-51,
			1962-82
Salt Creek at Olney (d)	08088100	11.80	1958-77
Salt Creek near Newcastle (d)	08088200	120	1958-60
Briar Creek near Graham (d)	08088300	24.20	1958-89
Brazos River at Farm Road 1287 near Graham (e)	08088420	13,432	1970-77
Big Cedar Creek near Ivan (d)	08088450	97	1965-89
Brazos River at Morris Sheppard Dam near Graford (d)	08088600	14,030	1990-94
Elm Creek Tributary near Graford (e)	08089100	1.10	1965-74
Palo Pinto Creek near Santo (d)	08090500	573	1925,
			1951-76
Cidwell Branch near Granbury (e)	08090850	3.37	1966-73
Morris Branch near Bluff Dale (e)	08091200	0.06	1965-73
Panther Branch near Tolar (e)	08091700	7.82	1966-74
Nolan River at Blum (d)	08092000*	282.0	1924-87
Brazos River near Whitney (d)	08093000	17,648	1939-74
Bond Branch near Hillsboro (e)	08093200	0.36	1965-74
Hackberry Creek at Hillsboro (d)	08093250	57.9	1980-92
Hackberry Creek below Hillsboro (e)	08093260	86.8	1980-92
Cobb Creek near Abbott (d) Aquilla Creek near Aquilla (d)	08093400 08093500#	12.40 308	1967-79 1939-2001
Aquilla Creek at RR bridge near Aquilla (e)	08093530	345	1976-85
Aquilla Creek at Farm Road 2114 near Aquilla (e)	08093540	351	1976-85
Aquilla Creek at Farm Road and 1858 near Ross (e)	08093560	392	1976-85
Aquilla Creek at Farm Road 933 near Ross (e)	08093580	397	1976-85
North Bosque River at Stephenville (d)	08093700	95.90	1958-79
Green Creek SWS #1 near Dublin (d)	08094000	4.19	1955-77
Green Creek near Alexander (d)	08094500	45.40	1958-73
South Bosque River near McGregor (e)	08095220	15.9	1967-73
Willow Branch at McGregor (e)	08095250	2.52	1966-73
Middle Bosque River near McGregor (d)	08095300*	182.0	1959-86
Hog Creek near Crawford (d)	08095400*	78.0	1959-86
South Bosque River near Speegleville (d)	08095500	386	1924-30

Station name	Station	Drainage area	Period of record
	number	$(mi^2)$	(water years)
Bosque River near Waco (d)	08095600	1,656	1960-82
Box Branch at Robinson (e)	08096550	0.34	1965-73
Cow Bayou SWS No. 4 (inflow) near Bruceville (e)	08096800	5.04	1958-75
Cow Bayou at Mooreville (d)	08097000	83.50	1958-75
Brazos River near Marlin (d)	08097500	30,211	1939-51
Deer Creek at Chilton (d)	08098000	84.50	1934-36
Little Pond Creek at Burlington (d)	08098300	23	1963-82
Leon River near De Leon (d)	08099100*	479.0	1960-87
Sabana River near De Leon (d)	08099300*	264.0	1960-87
Sabana River Tributary near De Leon (e)	08099350	0.48	1966-74
Leon River near Hasse (d)	08099500	1,261	1939-91
Eidson Creek near Hamilton (e)	08100100	2.91	1965-73
Bermuda Branch near Gatesville (e)	08100400	0.50	1966-73
Hoffman Branch near Hamilton (e)	08100800	5.56	1966-74
Cowhouse Creek near Killeen (d)	08101500	667	1925,
Notice Create at Dalton (d)	09102600	112	1939-42
Nolan Creek at Belton (d)	08102600	112	1974-82
School Branch near Lampasas (e)	08102900	0.90	1966-73
Fleece Branch near Lampasas (e)	08103450	1.08	1965-74
Lampasas River at Youngsport (d)	08104000	1,240	1924-80 1963-89
Lampasas River near Belton (d)	08104100*	1,321 134	1985-89
Salado Creek above Salado (e) Salado Creek below Salado Springs (d)	08104290* 08104310*	136	1985-88
N. Fork San Gabriel River upstream from State Highway 418 at Georgetown (e)	08104310*	271	1985-88
North Fork San Gabriel River at Georgetown (d)	08104793	268	1964-68
South Fork San Gabriel River near Bertram (e)	08104850	8.9	1967-74
San Gabriel River at Georgetown (d)	08105000*	405	1924-25,
San Gabrier River at Georgetown (u)	00103000	403	1934-73,
			1984-87
Berry Creek at State Hwy. 971 near Georgetown (d)	08105200*	117	1985-87
San Gabriel River near Weir (d)	08105300*	563	1977-90
San Gabriel River near Circleville (d)	08105400	599	1924-34,
			1967-77
Avery Branch near Taylor (e)	08105900	3.52	1966-73
Brushy Creek at Coupland (d)	08106000	205.0	1924-26
Brushy Creek near Rockdale (d)	08106300	505	1967-80
San Gabriel River near Rockdale (d)	08106310	1,359	1975-92
Big Elm Creek near Temple (d)	08107000	74.70	1934-36
Big Elm Creek near Buckholts (d)	08107500	171	1934-36
North Elm Creek near Ben Arnold (d)	08108000	32.20	1935-36
North Elm Creek near Cameron (d)	08108200	44.80	1963-73
Little Branch near Bryan (e)	08108800	0.14	1966-73
Brazos River near Bryan (d)	08109000	39,515	1899-1903,
			1918-92
Brazos River near College Station (d)	08109500	30,033	1899-1902,
			1918-25
Yegua Creek near Somerville (d)	08110000	1,009	1924-92
Brazos River at Washington (e)	08110200	41,192	1966-95
Plummers Creek at Mexia (e)	08110350	4.42	1965-73
Navasota River near Groesbeck (d)	08110400	311	1965-79
Navasota River near Bryan (d)	08111000	1,454	1951-94,
			1994-97
Navasota River near College Station (d)	08111010	1,809	1977-85
Burton Creek at Villa Maria Road, Bryan (d)	08111025	1.33	1968-70
Hudson Creek near Bryan (d)	08111050	1.94	1968-70
Winkleman Creek near Brenham (e)	08111100	0.75	1965-73
Piney Creek near Bellville (e)	08111600	30.7	1948,
			1955,
			1958,
West Fork Mill Creek near Industry (e)	00111750	15.0	1964-89
	08111650	15.3	1964-89

Station name	Station	Drainage area	Period of record
	number	(mi <sup>2</sup> )	(water years)
Mill Creek near Bellville (d)	08111700	376	1963-93
Brazos River near San Felipe (d)	08112000	35,100	1939-57
Brazos River near Wallis (e)	08112200	44,700	1974-75
Brazos River Authority Canal A near Fulshear (d)	08112500	N/A	1932-54,
Richmond Irrigation Co. Canal near Richmond (d)	09112500	N/A	1958-73
Richmond Irrigation Co. Canar near Richmond (d)	08113500	IN/A	1932-54, 1956-78
Brazos River near Juliff (d)	08114500	45,084	1949-69
Seabourne Creek near Rosenberg (e)	08114900	5.78	1968-74
Fairchild Creek near Needville (d)	08115500	26.20	1947-55
Big Creek near Guy (d)	08116000	116	1947-50
Dry Creek near Rosenberg (d)	08116400	8.65	1959-79
Dry Creek near Richmond (d)	08116500	12.20	1947-50,
			1957-58
San Bernard River near West Columbia (e)	08117700	766	1949, 1971-77
Mound Creek Tributary at Guy (e)	08117800	1.48	1971-77
Big Boggy Creek near Wadsworth (d)	08117900	10.30	1970-77
Bull Creek near Ira (d)	08118500	26.30	1948-54,
			1959-62
Colorado River below Bull Creek near Ira (e)	08118600	3,524	1975-78
Bluff Creek near Ira (d)	08119000	42.60	1948-65
Bluff Creek at mouth near Ira (e)	08119100	44.1	1975-78
Colorado River near Ira (d)	08119500	3,483	1948-52,
Morgan Creek near Westbrook (d)	08121500	273	1959-89 1954-63
Graze Creek near Westbrook (d)	08121300	21.70	1954-59
Morgan Creek near Colorado City (d)	08122500	313	1947-49
Champlin Creek near Colorado City (d)	08123500	198	1948-59
Sulphur Springs Draw near Wellman (e)	08123620	41.80	1966-74
Beals Creek above Big Spring (d)	08123650	9,319	1959-79
Beals Creek at Big Spring (d)	08123700	9,341	1957-59
Beals Creek near Coahoma (d)	08123720	9,383	1983-88
Coahoma Draw Tributary near Big Spring (e)	08123750	2.38	1966-74
Bull Creek Tributary near Forsan (e) Colorado River near Silver (d)	08123760 08123900	0.4 14,997	1966-74 1957-70
Bitter Creek near Silver (e)	08123920	4.3	1967-74
Salt Creek Tributary near Hylton (e)	08125450	0.25	1966-74
Fish Creek Tributary near Hylton (e)	08126300	0.25	1966-71
Colorado River at Ballinger (d)	08126500	16,413	1907-79
Dry Creek near Christoval (e)	08127100	0.79	1965-73
South Concho Irrigation Co. Canal at Christoval (d)	08127500	N/A	1940-83
Middle Concho River near Tankersley (d)	08128500	2,653	1930-61
Spring Creek above Tankersley (d)	08129300*	424.7	1961-95
Dove Creek Springs near Knickerbocker (d) Dove Creek at Knickerbocker (d)	08129500* 08130500*	N/A 226	1944-58 1961-95
Spring Creek near Tankersley (d)	08131000	699	1930-60
South Concho River above Pecan Creek near San Angelo (e)	08131300	470	1963-84
Tom Green Co. WCID No. 1 Canal near San Angelo (d)	08131600	N/A	1963-81
South Concho River at San Angelo (d)	08132500	3,866	1932-53
Quarry Creek near Sterling City (e)	08133300	3.25	1965-73
North Concho River at Sterling City (d)	08133500*	588.0	1939-87
Broome Creek near Broome (e)	08133800	0.29	1965-73
Nolke Station Creek near San Angelo (e)	08134300	0.59	1965-73
Gravel Pit Creek near San Angelo (e)	08134400	0.19	1965-74
North Concho River at San Angelo (d)	08135000	1,525	1916-31, 1947-90
Concho River near Veribest (e)	08136150	5,610	1970-74,
	00120120	-,	1998-2000

Cardian	G	Drainage	Period
Station name	Station number	area (mi <sup>2</sup> )	of record (water years)
Frog Pond Creek near Eden (e)	08136300	1.96	1967-73
Mukewater Creek SWS No. 10A near Trickham (e)	08136900	15.3	1965-72
Mukewater Creek SWS No. 9 near Trickham (e)	08137000	4.02	1961-72
Mukewater Creek at Trickham (d) Deep Creek SWS No. 3 near Placid (e)	08137500	70 3.42	1951-73 1954-60
Deep Creek SwS No. 5 hear Flacid (e)  Deep Creek near Mercury (d)	08139000 08139500	43.90	1954-73
Deep Creek SWS No. 8 near Mercury (e)	08139300	5.14	1952-71
Dry Prong Deep Creek near Mercury (d)	08140500	8.31	1951-71
Lake Clyde near Clyde (e)	08140600	36.9	1970-85
Pecan Bayou near Cross Cut (d)	08140700	532	1968-79
Jim Ned Creek near Coleman (d)	08140800	333	1965-80
McCall Branch near Coleman (e)	08141100	2.17	1966-73
Hords Creek near Valera (d)	08141500	54.20	1947-91
Hords Creek at Coleman (d)	08142000	107	1941-70
Brown County WID No. 1 Canal near Brownwood (d)	08142500	N/A	1950-83
Pecan Bayou at Brownwood (d)	08143500	1,660	1917-18,
			1924-83
Brown Creek Tributary near Goldthwaite (e)	08143700	2.48	1966-73
Noyes Canal at Menard (d)	08144000	N/A	1924-83
Brady Creek near Eden (d)	08144800	101	1962-85 1967-73
Brady Creek Tributary near Brady (e) Lake Buchanan near Burnet (e)	08145100 08148000	4.05 31,910	1937-90
Llano River Tributary near London (e)	08150200	0.58	1966-73
Stone Creek Tributary near Art (e)	08150200	0.40	1966-73
Llano River near Castell (d)	08151000	3,747	1924-39
Johnson Creek near Valley Spring (e)	08151300	5.66	1967-73
Little Flatrock Creek near Marble Falls (e)	08152700	3.20	1966-74
Spring Creek near Fredericksburg (e)	08152800	15.20	1967-73
Pedernales River at Stonewall (d)	08153000	647	1924-34
Cane Branch at Stonewall (e)	08153100	1.37	1965-71
Pedernales River near Spicewood (d)	08154000	1,294	1924-39
Lake Travis near Austin (d)	08154500	38,755	1940-90
Colorado River below Mansfield Dam, Austin (d)	08154510	38,755	1975-90
West Bull Creek at Loop 360 near Austin (e)	08154750	6.77	1976-82
Bull Creek at FM 2222, Austin (e)	08154760	30.4	1975-78
Bee Creek at West Lake Drive near Austin (e) Barton Creek near Camp Craft Road near Austin (d)	08154950	3.28 109	1980-82 1982-89
Skunk Hollow Creek below Pond 1 at Austin (e)	08155260 08155400	0.12	1982-89
West Bouldin Creek at Riverside Drive, Austin (e)	08155550	3.12	1976-82
Shoal Creek at Steck Avenue, Austin (e)	08156650	2.79	1975-82
Shoal Creek at Northwest Park at Austin (d)	08156700	6.52	1975-84
Shoal Creek at White Rick Drive, Austin (e)	08156750	12.30	1975-82
Waller Creek at 38th Street, Austin (d)	08157000	2.31	1955-80
Waller Creek at 23rd Street, Austin (d)	08157500	4.13	1955-80
East Bouldin Creek at South 1st Street, Austin (d)	08157600	2.4	1997-2001
Blunn Creek near Little Stacey Park, Austin	08157700	1.2	1997-2001
Boggy Creek at US Highway 183, Austin	08158050	13.1	1977-86
Walnut Creek at Farm-Market 1325 near Austin (e)	08158100	12.60	1994-2001 1975-88
Walnut Creek at Dessau Road, Austin (e)	08158200	26.20	1975-88
Ferguson Branch at Springdale Road, Austin (e)	08158300	1.63	1978-82
Little Walnut Creek at Georgian Drive, Austin (e)	08158380	5.22	1975-88
Little Walnut Creek at IH 35, Austin (e)	08158400	5.57	1975-82
Little Walnut Creek at Manor Road, Austin (e)	08158500	12.1	1975-82
Walnut Creek at Southern Pacific Railroad bridge, Austin (e)	08158640	53.5	1975-86
Onion Creek at Buda (e)	08158800	166	1961-78,
" " (d)			1979-83,
B C I E M I B 11/2/ M I C	00150000	24.0	1992-95
Bear Creek at Farm-Market Road 1626 near Manchaca (e)	08158820	24.0	1979-83
Little Bear Creek at Farm-Market Road 1626 near Manchaca (d)	08158825	21.0	1979
Slaughter Creek at FM 2304 near Austin (e)	08158860	23.1	1978-83

Drainage Period Station name Station area of record number (mi<sup>2</sup>)(water years) \_\_\_\_\_\_ Boggy Creek (South) at Circle S Road, Austin (e) 08158880 3.58 1976-88 Fox Branch near Oak Hill (e) 08158900 1965-73 0.12 1978-93 Williamson Creek at Oak Hill (d) 08158920 6.30 Williamson Creek at Jimmy Clay Road, Austin (d) 08158970 27.60 1975-85 Onion Creek below Del Valle (e) 08159100 339 1962-75 Wilbarger Creek near Pflugerville (d) 08159150 4.6 1963-80 Big Sandy Creek near McDade (d) 08159165 38.70 1979-85 Big Sandy Creek near Elgin (d) 1979-85 08159170 63.80 Dogwood Creek near McDade (e) 08159180 0.53 1980-85 Dogwood Creek at Highway 95 near McDade (e) 08159185 5.03 1980-85 Reeds Creek near Bastrop (e) 08159450 5.22 1967-73 Dry Creek at Buescher Lake near Smithville (d) 08160000 1.48 1940-66 Colorado River at La Grange (d) 08160500 40,430 1939-55 Colorado River above Columbus (d) 08160700 41,403 1983-85 Dry Branch Tributary near Altair (e) 08161580 0.68 1966-73 Little Robin Slough near Matagorda (e) 08162530 3.4 1969 Cashs Creek near Blessing (e) 08162650 14.8 1969-77 East Carancahua Creek near Blessing (e) 1968, 08162700 81.2 1970-83 West Carancahua Creek near Laward (e) 08162800 57.1 1970-76 Navidad River near Speaks (d) 08164350 437 1982-89. 1995-2000 549 Navidad River at Morales (d) 08164370 1995-2000 Navidad River near Ganado (d) 08164500 826 1939-80 Guadalupe River above Kerrville (e) 08166150 488 1976-79 Turtle Creek Tributary near Kerrville (e) 08166300 0.46 1966-74 Guadalupe River near Comfort (d) 08166500 762. 1918-32 Rebecca Creek near Spring Branch (d) 08167600 10.90 1960-79 Blieders Creek at New Braunfels (e) 08168600 16.0 1962-89 Panther Canyon at New Braunfels (e) 08168700 0.73 1962-89 08168720 Trough Creek near New Braunfels (e) 0.48 1966-74 W.P. Dry Comal Creek Tributary near New Braunfels (e) 0.32 1966-74 08168750 Dry Comal Creek at New Braunfels (e) 08168800 N/A 1962-74 Walnut Branch near Seguin (e) 08169750 5.46 1967-74 1965-74 East Pecan Branch near Gonzales (e) 08169850 0.24 San Marcos River at San Marcos (d) 08169950 1915-21 83.7 West Elm Creek near Niederwald (e) 08172100 0.44 1965-74 San Marcos River at Ottine (d) 08173500 1,249 1915-43 Guadalupe River below Cuero (d) 08176000 4,923 1903-07, 1916-19. 1921-36 Irish Creek near Cuero (e) 15.5 08176200 1967-74 Three Mile Creek near Cuero (e) 08176600 0.48 1966-74 Coleto Creek Reservoir inflow (Guadalupe diversion) near Schroeder (d) 08176990 357 1980-94 Coleto Creek near Schroeder (d) 08177000 1930-34 369 1953-79 Olmos Creek Tributary at FM 1535 at Savano Park (e) 08177600 0.33 1969-81 Olmos Reservoir at San Antonio (e) 08177800 32.4 1968-71, 1976-89. 1992-95 San Antonio River at Woodlawn Avenue, San Antonio (e) 1989-95 08177860 36.4 San Antonio River at Dolorosa, San Antonio (d) 08177920 N/A 1980-86 Alazan Creek at St. Cloud Street, San Antonio (e) 08178300 1969-79 3.26 San Pedro Creek at Furnish St., San Antonio (d) 08178500\* 2.60 1916-29 1977-81 Harlandale Creek at W. Harding Street, San Antonio (e) 08178555 2.43 Panther Springs Creek at FM 2696 near San Antonio (e) 08178600 9.54 1969-77 1980-84 Lorence Creek at Thousand Oaks Blvd., San Antonio (e) 08178620 4.05 West Elm Creek at San Antonio (e) 08178640 2.45 1976-88 East Elm Creek at San Antonio (e) 08178645 2.33 1976-81 Salado Creek Tributary at Bitters Road, San Antonio (e) 0.26 08178690 1969-81

Station name	Station	Drainage area	Period of record
Station name	number	(mi <sup>2</sup> )	(water years)
Salado Creek at Rittman Road, San Antonio (e)	08178720	137.1	1968-81
Salado Creek Tributary at Bee Street, San Antonio (e)	08178736	0.45	1970-77
Salado Creek at E. Houston Street, San Antonio (e)	08178740	181	1968-81
Salado Creek at U.S. Highway 87, San Antonio (e)	08178760	186	1968-81
Salado Creek at Southcross Blvd., San Antonio (e)	08178780	188	1968-81
Bandera Creek Tributary near Bandera (e)	08178900	0.27	1966-74
Medina River near Pipe Creek (d)	08179000	474	1923-35, 1953-82
Red Bluff Creek near Pipe Creek (d)	08179100	56.30	1956-81
Medina River Tributary near Pipe Creek (e)	08179200	0.30	1966-74
Medina River at La Coste (d)	08180640	805	1987-2000
Medio Creek at Pearsall Road, San Antonio (e)	08180750	47.9	1987-95
Leon Creek Tributary at FM 1604, San Antonio (e)	08181000	5.57	1968-80
French Creek Tributary near Helotes (e)	08181200	1.08	1966-74
Ranch Creek near Helotes (d)	08181410	1.10	1978
Leon Creek Tributary at Kelly Air Force Base (d) Calaveras Creek SWS No. 6 (inflow) near Elmendorf (e)	08181450 08182400	1.19 7.01	1969-79 1957-77
Calaveras Creek SWS No. 6 (Illinow) near Ellinendori (e) Calaveras Creek near Elmendorf (d)	08182500	77.20	1954-71
San Antonio River at Calaveras (d)	08182300	1,786	1918-25
Cibolo Creek near Boerne (d)	08183900	68.4	1963-95
Cibolo Creek near Bulverde (d)	08184000	198	1946-66
Cibolo Creek above Bracken (d)	08184500	250	1946-51
Cibolo Creek at Sutherland Springs (d)	08185500	665	1924-29
Ecleto Creek near Runge (d)	08186500	239	1962-89
Escondido Creek SWS No. 1 (inflow) near Kenedy (e)	08187000	3.29	1955-73
Escondido Creek at Kenedy (d)	08187500	72.40	1954-73
Escondido Creek SWS No. 11 (inflow) near Kenedy (e)	08187900	8.45	1959-77
Dry Escondido Creek near Kenedy (d)	08188000	9.43	1954-59
Baugh Creek at Goliad (e)	08188400	3.02	1966-74
Guadalupe-Blanco River Authority Calhoun Canal-Flume No. 2 near Long Mott (d)	08188750	N/A	1972-86
Guadalupe River at State Highway 35 near Tivoli (e)	08188810	10,280	1975-82
Olmos Creek Tributary near Skidmore (e)	08189600	0.58	1966-73
Chiltipin Creek at Sinton (d)	08189800	128	1970-91
Nueces River near Uvalde (d)	08191500	1,930	1928-39
Nueces River near Cinonia (d)	08192500	2,150	1915-25
Plant Creek near Tilden (e)	08194550	0.36	1965-74
Nueces River at Simmons (d)	08194600	8,561	1965-77
Frio River at Knippa (d)	08195700	N/A	1953
Dry Frio River at Knippa (d)	08196500	179	1953
East Elm Creek near Sabinal (e)	08198900	10.6	1967-74
Frio River near Frio Town (d)	08199700	1,460	1924-27
Hondo Creek near Hondo (d)	08200500	132	1953-64
Bone Creek near Hondo (e)	08200900 08202000	0.19 53.20	1965-74 1952-61
Seco Creek near Utopia (d) Seco Creek Reservoir inflow near Utopia (d)	08202450	59.5	1991-98
Seco Creek near D'Hanis (d)	08202430	87.40	1952-64
Parkers Creek Reservoir (d)	08202800	10.0	1991-99
Leona River Tributary near Uvalde (e)	08203500	1.21	1966-74
Leona River Spring Flow near Uvalde (d)	08204000*	1.21	1939-77
Leona River near Divot (d)	08204500	565	1924-29
Frio River at Calliham (d)	08207000	5,491	1925-26, 1932-81
Rutledge Hollow Creek near Poteet (e)	08207200	9.33	1966-74
Rutledge Hollow at 7th Street, Poteet (d)	08207220	N/A	1979-2000
Atascoas River at U.S. Highway 281, Pleasanton (d)	08207300	N/A	1973-2000
Atascosa River near McCoy (d)	08207500	530	1951-57 1966-73
Lucas Creek near Pleasanton (e) Ramirena Creek near George West (d)	08207700 08210300	32.80 84.40	1966-73 1968-72
Lagarto Creek near George West (d)	08210300	155	1972-89
Augusto Creek Hour Goorge (100) (4)	00210400	100	1/14 0/

Station name		Drainage	Period
	Station	area	of record
	number	(mi <sup>2</sup> )	(water years)
Rincon Bayou Channel near Calallen (d)	08211503	N/A	1996-2000
Pintas Creek Tributary near Banquete (e)	08211550	3.28	1966-74
Hamon Creek near Freer (e)	08211600	0.73	1965-73
San Diego Creek at Alice (d)	08211800	319	1964-89
Lake Alice at Alice (e)	08211850	150	1965-86
San Fernando Creek near Alice (d)	08212000	518	1962-63
North Las Animas Creek Tributary near Freer (e)	08212320	0.07	1969-74
Rio Grande at Vinton Bridge near Anthony (d)	08363840	28,680	1969-74
Northgate Reservoir at El Paso (e) Range Reservoir at El Paso (e)	08365540 08365545	6.89 11.89	1973-75 1973-75
Franklin Canal at El Paso (d)	08365550	N/A	1973-73 1969-72
McKelligon Canyon at El Paso (d)	08365600	2.30	1958-77
Government Ditch at El Paso (d)	08365800	6.40	1958-77
Rio Grande at Jaurez, MX (d)	08366000	29,350	1938-56
Riverside Canal near Socorro (d)	08366400	37,830	1969-72
Rio Grande at Island Station near El Paso (d)	08366500	29,743	1938-60
Rio Grande at Tornillo Branch near Fabens (d)	08367000	N/A	1924-38
Tornillo Drain at mouth near Tornillo (d)	08368000	N/A	1969-72
Tornillo Canal near Tornillo (d)	08368300	N/A	1969-72
Hudspeth Feeder Canal near Tornillo (d)	08368900	N/A	1969-72
Rio Grande at County Line Station near El Paso (d)	08369500	30,610	1938-60
Camo Rice Arroyo Tributary near Fort Hancock (e)	08370200	2.35	1966-74
Wild Horse Creek Tributary near Van Horn (e)	08370800	0.74	1966-73
Cibolo Creek near Presidio (d)	08373200	276	1971-77
Rio Grande above Presidio (lower Station) (d)	08373500	N/A	1901-13,
	0000000	0.4.50.5	1924-54
Rio Grande at Langtry (d)	08377500	84,795	1900-14, 1920,
			1924-60
Rio Grande Tributary near Langtry (e)	08377600	0.32	1966-74
Delaware River Tributary near Orla (e)	08407800	1.6	1966-74
Pecos River near Angeles (d)	08409500	20,540	1914-37
Salt Screwbean Draw near Orla (d)	08411500	464	1939-41,
Pecos River near Mentone (d)	08414000	21,650	1944-57 1922-26,
recos River hear ivientone (u)	08414000	21,030	1969-73
Reeves County WID No. 2 Canal near Mentone (d)	08414500	N/A	1922-25,
Recves county with No. 2 canal near Memone (a)	00414300	14/21	1939-57,
			1964-90
Ward County WID No. 3 Canal near Barstow (d)	08415000	N/A	1939-57,
` ` '			1964-90
Pecos River above Barstow (d)	08416500	21,800	1916-21
Ward County Irrigation District No. 1 Canal near Barstow (d)	08418000	N/A	1922-25,
			1939-57,
			1964-90
Pecos River at Pecos (d)	08420500	22,100	1898-1907,
			1914-15,
			1922-26,
			1939-55
Madera Canyon near Toyahvale (d)	08424500	53.80	1932-49
Phantom Lake Spring near Toyahvale (d)	08425500*	N/A	1932-34,
	00.4077004	37/4	1942-66
San Solomon Springs at Toyahvale (d)	08427500*	N/A	1932-34,
West Condia Coning at Delmonhag (d)	09.420000	NT/A	1941-65
West Sandia Spring at Balmorhea (d)	08429000	N/A	1932-33
East Sandia Spring at Balmorhea (d) Toyob Crook peer Beers (d)	08430000	N/A	1932-33
Toyah Creek near Pecos (d)	08431000	1,024	1940-41, 1944-45
Salt Draw near Pecos (d)	08431500	1,882	1939-41,
Dan Diaw heat 1 ceus (u)	00431300	1,002	1939-41, 1944-45
Limpia Creek below Fort Davis (d)	08431800	227	1944-43
Emple Creek below 1 of Davis (a)	00431000	221	1/02-11

Station name	Station	Drainage area	Period of record
	number 	(mi <sup>2</sup> )	(water years)
Limpia Creek near Fort Davis (d)	08432000	303	1925-32
Toyah Creek below Toyah Lake near Pecos (d)	08434000	3,709	1939-51
Grandfalls-Big Valley Canal near Barstow (d)	08435000	N/A	1922-26,
			1939-57,
			1964-76
Pecos River below Barstow (d)	08435500	25,980	1939-41
Toronto Creek near Alpine (d)	08435600	27.90	1971-76
Alpine Creek at Alpine (d)	08435620	18.10	1971-76
Moss Creek near Alpine (d)	08435660	11.30	1971-76
Sunny Glen Canyon near Alpine (d)	08435700	29.70	1968-77
Coyanosa Draw near Fort Stockton (d)  Pages Coyanty WID No. 2 (Ungar Piy) Corol near Crondfollo (d)	08435800	1,182 N/A	1964-77
Pecos County WID No. 2 (Upper Div.) Canal near Grandfalls (d)	08436500	IN/A	1922-25, 1939-57,
			1939-37, 1964-90
Courtney Creek Tributary near Fort Stockton (e)	08436800	0.44	1966-74
Pecos County WID No. 2 Canal near Imperial (d)	08437500	N/A	1940-57,
10005 County WID 110. 2 Cuntai near imperiar (a)	00437300	14/11	1964-90
Lake Leon Tributary near Fort Stockton (e)	08437550	1.59	1966-74
Pecos County WID No. 3 Canal near Imperial (d)	08437600	N/A	1940-57,
1000 county with 1000 cumumount important (u)	30.57300	11/11	1964-90
Monument Draw Tributary at Pyote (e)	08437650	178	1966-74
Ward County WID No. 2 Canal near Grand Falls (d)	08437700	N/A	1939-57,
` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			1964-90
Pecos River near Grand Falls (d)	08438100	27,810	1916-26
Pecos River below Grand Falls (d)	08441500	27,820	1921-26,
			1939-56
Three Mile Mesa Creek near Fort Stockton (e)	08444400	1.04	1966-74
Comanche Springs at Fort Stockton (d)	08444500	N/A	1936-64
Pecos River near Sheffield (d)	08447000	31,600	1922-25,
			1940-49
Howards Creek Tributary near Ozona (e)	08447200	7.53	1967-73
Pecos River near Shumla (d)	08447400	35,162	1955-60
Pecos River near Comstock (d)	08447500	35,298	1900-54
Goodenough Springs near Comstock (e)	08448500	N/A	1929-60
Sonora Field Creek at Sonora (e)	08448800	2.60	1965-71
Devils River near Juno (d)	08449000	2,730	1925-49,
Devils River near Comstock (d)	08449300	3,903	1964-73 1955-58
Rough Canyon Tributary near Del Rio (e)	08449470	3,903 7.90	1967-73
Devils River near Del Rio (d)	08449500	4,185	1900-14,
Deviis River hear Der Rio (d)	08449300	4,165	1924-57
Evans Creek Tributary near Del Rio (e)	08449600	0.39	1966-73
Devils River near mouth, Del Rio (d)	08450500	4,305	1954-60
Rio Grande near Del Rio (d)	08452500	123,303	1900-15,
ruo ofunde neur Ber ruo (u)	00 132300	123,303	1920,
			1924-54
San Felipe Creek near Del Rio (e)	08453000	46.0	1931-60
Zorro Creek near Del Rio (e)	08453100	10.0	1966-74
East Perdido Creek near Brackettville (e)	08454900	3.39	1965-74
Pinto Creek near Del Rio (d)	08455000	249	1929-69,
			1971-72
Rio Grande at San Antonio Crossing (d)	08458700	129,226	1952-60
Arroyo San Bartolo at Zapata (e)	08459600	0.61	1966-74
Rio Grande near Zapata (d)	08460500	163,344	1932-53
International Falcon Reservoir near Falcon Heights (d)	08461200	N/A	1953-60
Rio Grande at Roma (d)	08462500	166,464	1900-13,
			1923-54
Rio Grande near Rio Grande City (d)	08465500	180,941	1932-54
Rio Grande Tributary near Rio Grande City (e)	08466100	1.20	1966-74
Rio Grande Tributary near Sullivan City (e)	08466200	0.40	1966-74
North Floodway South of McAllen (d)	08468000	N/A	1928-60

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of record (water years)
South Floodway South of McAllen (d)	08470000	N/A	1929-60
Rio Grande at Hildalgo (d)	08471500	176,100	1928-32,
-			1935,
			1939,
			1941-51
Rio Grande near Progreso Bridge (d)	08473300	176,228	1953-60
Rio Grande near San Beniot (d)	08473700	176,304	1953-60
Rio Grande at Matamoros, MX (d)	08474500	182,211	1900-13,
			1923-54
Rio Grande near Brownsville (d)	08475000	176,333	1935-50

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 2000 water year. Daily records of specific conductance, temperature, sediment, color, pH, dissolved oxygen, or chloride were collected and published for the record shown for each station.

[SC, specific conductance; T, temperature; S, sediment; C, color; pH, pH; DO, dissolved oxygen; Cl, chloride.]

		Drainage		Period
Stationname	Station	area	Type of	of record
	number 	(mi <sup>2</sup> )	record	(water years)
Canadian River at Tascosa	07227470	19,200	SC, T, Cl	1948-53,
		18,536	SC, T, pH, Cl	1969-77
Canadian River near Canadian	07228000	22,866	SC, T	1974-81
Prairie Dog Town Fork Red River near Wayside	07297910	4,221	SC, T	1969-81
Tule Creek near Silverton	07298200	1,150	SC, T, pH, Cl	1968-69
Prairie Dog Town Fork Red River near Brice	07298500	6,082	SC, pH, Cl, S	1949-51,
			T	1950-51
Mulberry Creek near Brice	07299000	534	SC, pH, Cl, S	1949-51
Prairie Dog Town Fork Red River near Lakeview	07299200	6,792	SC, T	1968-80,
			S	1979-80
Little Red River near Turkey	07299300	139	SC, T	1968-81,
			S	1979-81
Jonah Creek at Weir near Estelline	07299512	65.50	SC	1974-82
Jonah Creek below Weir near Estelline	07299514	66.60	SC	1974-76
Salt Creek near Estelline	07299530	142	SC	1974-79
Prairie Dog Town Fork Red River near Childress	07299540	7,725	SC, T	1968-82,
				1994-97
Salt Fork Red River near Hedley	07299930	868	SC, T, pH, Cl	1956-61
Salt Fork Red River near Wellington	07300000	1,222	SC, T, pH, Cl	1952-54,
	05005400		SC, T	1968-91
North Pease River near Childress	07307600	1,434	SC, T	1973-79
Middle Pease River near Paducah	07307750	1,086	SC	1973-79,
			T	1973-79,
N'III D. D'. D. L. I	052055 60	1 120	S	1994-97
Middle Pease River near Paducah	07307760	1,128	SC	1980-82,
n n' Cl'il	07207000	0.754	T	1980
Pease River near Childress	07307800	2,754	SC, T	1968-82,
D D'	07200000	2.027	60	1994-97
Pease River near Crowell	07308000	3,037	SC	1942-43
Pease River near Vernon	07308200	3,488	SC,T	1999
Red River near Burkburnett North Fork Wichita River near Paducah	07308500 07311600	20,570 540	SC, T SC, T	1968-81 1968-76
North Fork Wichita River near Crowell	07311600	591	SC, 1 SC	1908-76
Middle Fork Wichita River near Truscott	07311622	161	SC SC	1971-76
Truscott Brine Lake near Truscott	07311648	26.2	SC, T	1970-70
North Fork Wichita River near Truscott	07311700	937	SC, T	1969-92
South Fork Wichita River near Guthrie	07311700	239	SC, 1	1909-92
South Wichita River hear Guthlie South Wichita River below Low-Flow Dam near Guthrie	07311780	223	SC, T	1987-89
South Fork Wichita River at Ross Ranch near Guthrie	07311783	499	SC, 1 SC	1971-79,
South Fork Wielita River at Ross Ranen near Guillie	0/311/70	477	Cl	1988-97,
			S	1978-79
Wichita River near Seymour	07311900	1,874	SC, T	1968-79
Beaver Creek near Electra	07312200	652	SC,T	1969-70
Beaver Creek near Electra	07312200	032	50,1	1996-99
Little Wichita River near Archer City	07314500	481	SC	1953-55,
2	0,314300	.01	T	1953-54
Little Wichita River near Henrietta	07314900	1,037	SC, DO	1999
Little Wichita River near Henrietta	07315000	1,037	SC, T, pH, Cl	1953-56,
	5.515000	-,~~,	S, T	1959-66,
East Fork Little Wichita River near Henrietta	07315200	178	T	1954
			-	4/01

		Drainage	·	Period
Stationname	Station	area	Type of	of record
	number	(mi <sup>2</sup> )	record	(water years)
Red River near Gainesville	07316000	30,872	SC, Cl	1944-46,
			SC, T, pH, Cl	1953-63,
			SC, T	1967-89,
Red River at Denison Dam near Denison	07331600	39,720	SC	1944-89,
			T	1945-89
Little Pine Creek near Kanawha	07336750	75.40	T	1980
Red River near De Kalb	07336820	47,348	SC, T	1968-91
Middle Sulphur River near Commerce	07342480	44.1	Cl, pH	1987-2001
South Sulphur River near Cooper	07342500	527	SC, T, pH, Cl	1959-66,
				1968-72,
			SC, T	1973-89
Sulphur River near Talco	07343200	1,365	SC, T, pH, Cl	1966-72,
			SC, T	1973-91
White Oak Creek near Talco	07343500	494	SC, T, pH, Cl	1966-72,
			SC, T	1973-91
Sulphur River near Darden	07344000	2,774	SC, T, pH, Cl	1947-50
Big Cypress Creek near Pittsburg	07344500	366	SC, T, pH, Cl	1968-72,
			SC, T	1973-89
Little Cypress Creek near Jefferson	07346070	675	SC, T, pH, Cl	1968-72,
			SC, T	1973-91
Sabine River near Emory	08017500	888	SC, T, pH, Cl	1952-54
Grand Saline Creek near Grand Saline	08018200	91.40	SC, T, pH, Cl	1968-73
Sabine River near Mineola	08018500	1,357	SC, T, pH, Cl	1968-72,
			SC, T	1973-92
Lake Fork Creek near Quitman	08019000	585	SC, T, pH, Cl	1968-72,
			SC, T	1973-89
Big Sandy Creek near Big Sandy	08019500	231	SC, T, S	1985-86
Sabine River near Beckville	08022040	3,589	SC, T	1952-98
Sabine River below Toledo Bend near Burkeville	08026000	7,482	SC, T	1969-86,
			С	1969-75
Sabine River near Bon Wier	08028500	8,229	SC, T, C	1969-84
Sabine River near Ruliff	08030500	9,329	SC	1945,
			_	1947-98
			T	1947-98
			pH, DO	1968-75,
			C	1970-76,
			Cl	1968
Cow Bayou near Mauriceville	08031000	83.30	SC, T, pH, Cl	1952-54,
			SC, T	1954-56
Neches River near Neches	08032000	1,145	SC, T	1974-91
Neches River near Alto	08032500	1,945	SC, T	1950-69
Neches River near Diboll	08033000	2,724	SC, T	1970-81
Neches River near Rockland	08033500	3,636	SC	1941-42,
	00000000	4 500		1946-47
Angelina River near Lufkin	08037000	1,600	SC, T, pH, Cl	1955-78,
	0000000	702	SC, T	1955-
Attoyac Bayou near Chireno	08038000	503	SC, T	1984-99
Sam Rayburn Reservoir near Jasper	08039300	3,449	SC, T	1964-84,
A 1' D' 11 C D 1 D 7	00000100	2.440	9.C. T.	1993-99
Angelina River below Sam Rayburn Dam near Jasper	08039400	3,449	SC, T	1964-79
Angelina River at SH 63 near Ebenezer	08039500	3,435	SC, T	1994-99
Village Creek near Kountze	08041500	860	SC, T	1968-70
Pine Island Bayou near Sour Lake	08041700	336	SC, T, pH, Cl	1968-72,
D' C I C I D'I	00044000	222	SC, T	1973-89
Big Sandy Creek near Bridgeport	08044000	333	SC, T, S	1968-77,
Lake Worth above Fort Worth	08045400	2,064	pH, Cl	1040.53
Clear Fork Trinity River at Fort Worth	08047500	518	SC, pH, Cl	1949-52,
			T	1948-62

			Period	
Stationname	Station	Drainage area	Type of	of record
	number	(mi <sup>2</sup> )	record	(water years)
Village Creek at Everman	08048970	84.5	SC, pH, T, DO	1990
Elm Fork Trinity River SWS # 6-0 near Muenster	08050200	0.77	S	1957-66
Elm Fork Trinity River near Muenster	08050300	46	SC	1967-68,
•			T	1957-58,
				1966-68,
			S	1957-68
Clear Creek near Sanger	08051500	295	SC, T, S	1968-77
Little Elm Creek near Celina	08052650	46.70	SC	1967-75,
			T, S	1966-75
Little Elm Creek near Aubrey	08052700	75.50	SC	1967-75,
			T, S	1967-75
Elm Fork Trinity River near Lewisville	08053000	1,673	SC	1982-86,
			T	1976-86
White Rock Creek at Greenville Avenue, Dallas	08057200	66.4	SC, pH, T, DO	1997-2000
Trinity River below Dallas	08057410	6,278	SC, T	1968-2000,
			S	1972-75,
				1998-2000
			Cl	1970-81,
				1998-99
Lavon Lake near Lavon	08060500	770	SC,T,CL	1969-74,
				1975,82,
				1995-99
Duck Creek near Garland	08061700	31.6	SC, pH, T, DO	1988-89
East Fork Trinity River above Seagoville	08061970	1,183	SC, T, pH, DO	1987-93
East Fork Trinity River at Seagoville	08061980	1,224	SC, pH, T, DO	1987-96
East Fork Trinity River near Crandall	08062000	1,256	SC, T	1968-1981,
				1987-2000
			pH, DO	1977,
				1986-2000
			Cl	1964-81,
				1986-2000
Trinity River at Trinidad	08062700	8,538	SC, T	1967-81
				1986-2000
			pH, DO	1967-81,
				1986-2000
			Cl	1966-94
			S	1978-94
Cedar Creek near Mabank	08063000	733	SC, T, pH, Cl	1956-57
Pin Oak Creek near Hubbard	08063200	17.60	SC	1967-72,
			T	1957-60,
			_	1965-72,
			S	1957-60,
				1962-72
Richland Creek near Richland	08063500	734	SC, T, pH, Cl	1968-69,
			SC, T	1983-89
Chambers Creek near Corsicana	08064500	963	SC, T, pH, Cl	1961-70
Richland Creek near Fairfield	08064600	1,957	SC, T, pH, Cl	1956-66,
			aa m	1972,
	000 4 7 000	12.000	SC, T	1973-83
Trinity River near Oakwood	08065000	12,833	SC, T, pH, Cl	1948-54,
D I' C 1 M I' 'II	000 65000	201	SC, T, S	1977-81
Bedias Creek near Madisonville	08065800	321	SC, T	1985-87,
T. W. C. L. III.	00044000	4.4	S	1986
Long King Creek at Livingston	08066200	141	SC, T, pH, Cl	1963-72
Trinity River near Goodrich	08066250	16,844	SC, T	1970-73
Trinity River near Moss Bluff	08067100	17,738	SC, pH, Cl	1950-65
Old River near Cove	08067200	19.0	SC, pH, Cl	1950-65,
			T	1965

Stationname	Station	Drainage area	Type of	Period of record
Station hame	number	(mi <sup>2</sup> )	record	(water years)
Trinity River at Anahuac	08067300	17,912	SC, pH, Cl	1950-65
Cedar Bayou near Crosby	08067500	69.4	SC, pH, Cl	1971-79
West Fork San Jacinto River near Conroe	08068000	828	SC, T	1962-90,
			DO	1979-81
Panther Branch near Spring	08068450	34.50	S	1975-76
West Fork San Jacinto River near Humble	08069500	1,741	SC, Cl	1945-46
East Fork San Jacinto River near New Caney	08070200	388	SC,T	1984-99
San Jacinto River near Huffman	08071500	2,800	SC	1945-54,
			T	1949-54
Buffalo Bayou at West Belt Drive at Houston	08073600	307	SC, T	1979-81
Buffalo Bayou at Houston	08074000	358	SC, pH, T, DO	1986-2000
			Cl	1969-81
Whiteoak Bayou at Main Street, Houston	08074598	127	SC, T, DO	1992-97
Buffalo Bayou at Main Street, Houston	08074600	469	SC, T, DO	1986-92
Buffalo Bayou at McKee Street, Houston	08074610	469	SC, T, DO	1992-2000
			pН	1998-2000
Sims Bayou at Houston	08075500	63.0	SC, T, DO	1994-97
Chocolate Bayou near Alvin	08078000	87.70	SC, T	1978-81
North Fork Double Mountain Fork Brazos River near Post	08079575	438	SC, T	1984-93
Double Mountain Fork Brazos River near Rotan	08080000	8,536	SC, T	1950-51
Double Mountain Fork Brazos River near Aspermont	08080500	8,796	SC, T, S	1949-51
			SC, T	1957-95
McDonald Creek near Post	08080540	103	SC, T	1964-78
Salt Fork Brazos River near Peacock	08081000	4,619	SC, T	1950-51,
				1965-86
Croton Creek near Jayton	08081200	290	SC, T	1961-80
Salt Croton Creek near Aspermont	08081500	64.30	SC	1969-77,
		- 120	T	1972-73
Salt Fork Brazos River near Aspermont	08082000	5,130	SC, T, pH, Cl	1949-51,
	00002100	00.00	SC, T	1957-82
Stinking Creek near Aspermont	08082100	88.80	T	1950,
North Costs Costs and Versa City	00002100	251	SC, T	1966-69
North Croton Creek near Knox City	08082180	251	SC, T	1966-86
Brazos River at Seymour Medina River near Somerset	08082500 08082800	15,538 967	SC, T SC, T, Cl	1960-95 1998-2000
Clear Fork Brazos River at Hawley	08082800	1,416	SC, I, CI SC, T	1998-2000
Clear Fork Brazos River at Hawley	00003240	1,410	SC, 1	1982-84
Clear Fork Brazos River at Nugent	08084000	2,199	SC, T, pH, Cl	1962-64
California Creek near Stamford	08084800	478	SC, T, pH, CI	1948-33
Paint Creek near Haskell	08085000	914	SC, T	1950-5
Clear Fork Brazos River at Fort Griffin	08085500	3,988	SC, T, S	1950-51,
Clear Folk Brazos River at Fort Griffin	00003300	3,700	SC, T	1968-79,
			50, 1	1982-84
Hubbard Creek near Sedwick	08086015	128	SC, T	1964-66
Deep Creek at Moran	08086050	228	SC, T	1963-75
Hubbard Creek near Albany	08086100	454	SC, T	1962-75
Salt Prong Hubbard Creek at U.S. Highway 380 near Albany	08086120	61	SC, T	1964-68
North Fork Hubbard Creek near Albany	08086150	39.30	SC, T	1964-90
Salt Prong Hubbard Creek near Albany	08086200	115	SC, T	1962-63
Snailum Creek near Albany	08086210	22.90	SC, T	1964-66
Battle Creek near Moran	08086235	108	SC, T	1967-68
Pecan Creek near Eolian	08086260	26.40	SC, T	1967-75
Big Sandy Creek near Breckenridge	08086300	288	SC, T	1962-77
Hubbard Creek near Breckenridge	08086500	1,089	SC, T	1955-75
Clear Fork Brazos River at Eliasville	08087300	5,697	SC, T	1962-82
	08088000	22,673	SC, Cl	1942-48,
Brazos River near South Bend	08088000	,		
Brazos River near South Bend	08088000	,	SC, T	1978-81

	Drainage			Period	
Stationname	Station	area	Type of	of record	
	number	(mi <sup>2</sup> )	record	(water years)	
Salt Creek near Newcastle	08088200	120	SC, T	1958-60	
Brazos River at Morris Sheppard Dam near Graford	08088600	23,596	SC	1942-91,	
**			T	1950-55,	
				1966-91	
Brazos River near Dennis	08090800	25,237	SC, T	1971-95	
Brazos River at Whitney Dam near Whitney	08092600	27,189	SC, T	1947-97	
Aquilla Creek above Aquilla	08093360	255	SC, T	1980-83	
Aquilla Creek near Aquilla	08093500	308	SC, T	196066,	
				1968-82	
Brazos River near Highbank	08098290	30,436	T	1968-84	
Leon River near Eastland	08098500	235	SC, T	1950-53	
Leon River near Hasse	08099500	1,261	SC, T	1980-82,	
				1990-97	
Leon River near Belton	08102500	3,542	T	1957-72	
South Fork Rocky Creek near Briggs	08103900	33.30	S	1963-65	
Lampasas River at Youngsport	08104000	1,240	SC, T	1961-64	
Little River near Little River	08104500	5,228	SC, T	1965-73,	
				1980-82	
Little River near Cameron	08106500	7,065	SC, T	1959-97	
San Gabriel River near Weir	08105300	563	T	1977-82	
San Gabriel River at Laneport	08105700	738	T	1977-82	
Brazos River at State Highway 21 near Bryan	08108700	39,049	SC, T	1961-65	
Brazos River near Bryan	08109000	39,515	SC, T	1966	
Brazos River near College Station	08109500	39,599	SC, T	1961-84	
Yegua Creek near Somerville	08110000	1,009	SC, T	1961-67	
Navasota River above Groesbeck	08110325	239	SC, T	1968-89	
Navasota River near Groesbeck	08110400	311	SC, T	1968-78	
Navasota River near Easterly	08110500	968	SC	1942-43,	
	00444000			1947	
Navasota River near Bryan	08111000	1,454	SC, T	1959-81,	
D D' D' I	00114000	45.005	S	1976-81	
Brazos River near Richmond	08114000	45,007	S	1966-86,	
			SC	1942-95,	
D D' D I	00116650	45.200	T	1951-95	
Brazos River near Rosharon	08116650	45,399	SC, T	1969-80	
Brazos River at Harris Reservoir near Angleton	08116700	44,000	SC	1962-77,	
Daniel Da	00117200	44.000	T	1967-77	
Brazos River at Brazoria Reservoir near Brazoria	08117200	44,000	SC	1962-77,	
Con Downard Divorman Doling	09117500	727	T	1967-77	
San Bernard River near Boling	08117500	727	SC, T	1978-81	
Colorado River above Bull Creek near Knapp	08118200	N/A	SC, T, Cl	1950-52	
Bull Creek near Ira	08118200	26.30	SC, T, pH, Cl	1950-52	
Bluff Creek near Ira	08119000	42.60	SC, T, pH, Cl	1950-31	
Colorado River near Ira	08119000	3,483	SC, T, pH, CI	1950-52,	
Colorado River near na	00119300	3,463	SC, 1	1950-32,	
				1975-82,	
			Cl	1951-52	
Deep Creek near Dunn	08120500	198	SC, T	1953-54	
Morgan Creek near Westbrook	08120500	273	T T	1953-54	
Graze Creek near Westbrook	08121300	21.70	T	1954-55	
Morgan Creek near Colorado City	08122500	313	T	1934-33	
Lake Colorado City near Colorado City	08123000	340	T	1954-55	
Beals Creek above Big Spring	08123650	9,319	SC, T	1973-78	
Beals Creek near Big Spring	08123700	9,319	SC, T	1956-57	
Beals Creek near Coahoma	08123720	9,383	SC, T	1983-88	
Colorado River near Silver	08123900	14,997	SC, T	1957-68	
Colorado River at Robert Lee	08124000	15,307	SC, T, pH, Cl	1948-51,	
	35121000	-2,00.	, -, p11, C1	-> .0 51,	

Station name	Station	Drainage area	Type of	Period of record	
Stationname	number	(mi <sup>2</sup> )	record	(water years)	
			S	1949-51	
Oak Creek near Blackwell	08126000	209	SC, T	1950	
Colorado River at Ballinger	08126500	16,413	SC, T	1961-79,	
Colorado Inversa Daninger	00120000	10,110	S	1978-79	
Pecan Bayou at Brownwood	08143500	1,660	SC, T	1948-49	
Pecan Bayou near Mullin	08143600	2,073	SC, T	1968-91	
San Saba River near San Saba	08145500	N/A	SC, T	1962-65	
San Saba River at San Saba	08146000	3,046	SC, 1	1962-69,	
San Saba River at San Saba	08140000	3,040	T T	1962-09,	
Colorado River near San Saba	08147000	37,217	SC, T	1947-92,	
Colorado River near San Saba	00147000	37,217	S S	1951-62	
Llano River at Llano	08151500	4,197	SC, T	1979-81	
Lake Austin at Austin	08154900	38,240	SC, T	1965-80	
			SC, T,		
Barton Creek below Barton Springs at Austin	08155505	125	SC, 1,	1965, 1975-83,	
				1989-91,	
W. H. G. 1 . 20 1 G	00155500	4.12	<b>T</b>	1994-97	
Waller Creek at 23rd Street at Austin	08157500	4.13	T	1955-60	
East Bouldin Creek at South 1st Street, Austin	08157600	2.4	Cl	1997-2000	
Blunn Creek near Little Stacey Park, Austin	08157700	1.2		1997-2001	
Boggy Creek at US Highway 183, Austin	08158050	13.1	C	1977-86	
			C, T	1994-2001	
Colorado River at Austin	08158000	39,009	SC, T	1948-91	
Colorado River above Columbus	08160700	41,403	SC, T	1983-86	
Colorado River at Columbus	08161000	41,640	SC	1967-73,	
			T	1957-59,	
				1961-68	
			S	1957-73	
Colorado River at Wharton	08162000	42,003	SC	1945-92,	
			T	1946-48,	
Lavaca River near Edna	08164000	817	SC, T	1978-81	
Navidad River near Speaks	08164350	437	SC, T, pH, Cl	1996-97	
Navidad River near Ganado	08164500	826	SC, T	1960-80	
Guadalupe River near Spring Branch	08167500	1,315	SC	1942-45	
Guadalupe River at Sattler	08167800	1,436	T	1984-87	
Blanco River at Wimberley	08171000	355	T	1977-78	
Plum Creek near Luling	08173000	309	SC, T	1968-86	
Sandies Creek near Westhoff	08175000	549	S	1966	
			Cl	1962-99	
Guadalupe River at Victoria	08176500	5,198	SC	1946-81,	
•			T	1951-81	
Coleto Creek Reservoir (Condenser No. 1) near Fannin	08177360	414	T	1980-94	
Coleto Creek Reservoir (outflow) near Victoria	08177410	494	T	1980-94	
Olmos Creek at Dresden Drive, San Antonio	08177700	21.2	SC, pH, T, DO		
			S	1973	
San Antonio River at San Antonio	08178000	41.8	SC, T	1991-92,	
<del></del>			~ ~, -	1996-97	
San Antonio River at Mitchell Street, San Antonio	08178050	42.4	SC, pH, T, DO	1992-99	
San Antonio River at Loop 410 at San Antonio	08178565	125	SC, pH, T, DO		
Medina River near Macdona	08180700	885	SC, pH, T, DO		
Medina River at La Coste	08180640	805	SC, pH, T, DO		
Medio Creek at Pearsall Rd. at San Antonio	08180750	47.9	SC, pH, T, DO		
Ingram Road Outfall at Leon Creek Tributary at San Antonio	08181410	0.02	SC, pH, T, DO		
Leon Creek at Interstate Highway 35 at San Antonio		219			
·	08181480		SC, pH, T, DO		
Medina River at San Antonio	08181500	1,317	SC, pH, T, DO		
Son Antonio Divon moon Fells City	00102500	2 112	Cl	1965-2000	
San Antonio River near Falls City	08183500	2,113	SC, pH, T, DO	1987-96	

	Drainage			
Station name	Station	area	Type of	of record
	number	(mi <sup>2</sup> )	record	(water years)
Cibolo Creek near Falls City	08186000	827	SC, T	1969-91
Escondido Creek SWS #1 near Kenedy	08187000	3.29	S	1955-65
Guadalupe River at Tivoli	08188800	10,128	SC, T	1966-82
Mission River at Refugio	08189500	690	SC, T	1961-81
Nueces River at Cotulla	08194000	5,171	SC	1942
Frio River at Calliham	08207000	5,491	SC, T	1968-81
Nueces River at Bluntzer	08211000	16,772	SC, T	1948-91
Los Olmos Creek near Falfurrias	08212400	480	SC, T	1975-81
Rio Grande at El Paso	08364000	29,267	SC, pH, T, DO	1930-2000
Rio Grande at Fort Quitman	08370500	31,944	SC, T	1975-78.
Rio Grande at Foster Ranch near Langtry	08377200	80,742	SC, T	1975-81
Pecos River below Red Bluff Dam near Orla	08410100	20,720	SC	1937-69,
			T	1953-69
Salt Draw near Orla	08411500	464	SC, T	1943-48
Pecos River near Mentone	08414000	21,650	SC	1939
Pecos River at Pecos	08420500	22,100	SC	1939-41
Toyah Creek near Pecos	08431000	1,024	SC	1940,
·				1944
Salt Draw near Pecos	08431500	1,882	SC	1940,
				1944
Toyah Creek below Toyah Lake near Pecos	08434000	3,709	SC	1940-50,
·			Cl	1940
Pecos River below Grand Falls	08441500	27,820	SC	1939-42,
				1947-56
Pecos River near Girvin	08446500	29,560	SC	1940-41,
				1947,
				1954-82
			T	1954-59,
				1964-82
Pecos River near Sheffield	08447000	31,600	SC	1940-41,
				1947
Pecos River near Langtry	08447410	35,179	SC, T	1971-76,
				1981-85
Devils River at Pafford Crossing near Comstock	08449400	3,961	SC, T	1978-85
Rio Grande at Laredo	08459000	132,578	SC	1975-86,
			T	1974-76
Rio Grande at Roma	08462500	166,464	SC	1942-43
Rio Grande at Fort Ringgold, Rio Grande City	08464700	174,362	SC, pH, T	1959-2000
Rio Grande near Los Ebanos	08466300	N/A	SC, pH, T	1977-2000
Rio Grande at Mission Pumping Plant	08468000	171,800	SC	1945-50
Rio Grande below Anzalduas Dam	08469200	176,112	SC, pH, T	1967-72,
		•	** *	1959-2000
Rio Grande at Cameron Co. WID #2 near San Benito	08473800	N/A	SC	1942-43
Rio Grande at Los Fresnos Pumping Plant near Brownsville	08474130	N/A	SC	1945-46
Rio Grande near Brownsville	08475000	176,333	SC	1943-44,
		•	SC, T	1967-83
			S	1966-83

# WATER RESOURCES DATA—TEXAS, 2002

### **VOLUME 2**

### TRINITY RIVER BASIN

#### INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with Federal, State, and City agencies, obtains a large amount of data pertaining to the water resources of Texas each water year. Such data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in six volumes of this report series entitled "Water Resources Data - Texas."

This report series includes records of stage, discharge, and water quality of streams and canals; stage, contents, and water quality of lakes and reservoirs, and water levels and water quality of ground water wells. Volume 2 contains records for water discharge at 45 gaging stations; stage only at 2 gaging stations; stage and contents at 23 lakes and reservoirs; and water quality at 27 gaging stations. Also included are data for 2 partial-record stations comprised of 1 flood-hydrograph and 1 crest-stage stations. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and City agencies in Texas.

This series of annual reports for Texas began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report was changed to its present format, with data on quantities and quality of surface water contained in each of three volumes, and expanding to five volumes beginning with the 1999 water year. Ground-water levels and water quality have been published in a separate volume beginning with the 1991 water year.

Prior to introduction of this series and for several water years concurrent with it, water resources data for Texas were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface Water Supply of the United States, Parts 7 and 8." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Books and Open-File Reports, Federal Center, Bldg. 41, Box 25425 Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official U.S. Geological Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water Data Report TX-02-2." For archiving and general distribution, the reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or may be purchased on microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161, (703) 605-6000.

Additional information, including the current prices, for ordering specific reports may be obtained from the Texas District Chief at the address given on the back of the title page or by telephone (512) 927-3500.

### COOPERATION

Federal agencies that assisted the U.S. Geological Survey in the collection of data in this report in the form of funds or services in water year 2002 are:

- ☐ Corps of Engineers, U.S. Army.
- ☐ International Boundary and Water Commission United States and Mexico, U.S. Section.
- National Park Service
- ☐ U.S. Bureau of Reclamation.

Organizations that assisted in the collection of data in this report through joint funding agreements through the Texas Water Development Board or through direct joint funding agreements with the U.S. Geological Survey are:

Texas Water Development Board (TWDB), G.E. Kretzschmar, Executive Administrator; the cities of Abilene, Arlington, Austin, Corpus Christi, Fort Worth, Gainesville, Garland, Georgetown, Graham, Houston, Lubbock, Nacogdoches, San Angelo, and Wichita Falls; Bexar, Medina, and Atascosa Counties Water Improvement District No. 1; Barton Springs/ Edwards Aquifer Conservation District; Brazos River Authority; Canadian Municipal Water Authority; Coastal Water Authority; Colorado River Municipal Water District; Dallas Public Works Department; Dallas Water Utilities; Edwards Underground Aquifer Authority; Fort Bend Subsidence District; Franklin County Water District; Galveston County; Greenbelt Municipal and Industrial Water Authority; Guadalupe-Blanco River Authority; Harris-Galveston Coastal Subsidence District; Harris County Office of Emergency Management; Harris County Flood Control District: Houston-Galveston Area Council; Lavaca-Navidad River Authority; Lower Colorado River Authority; Lower Neches Valley Authority; North Central Texas Municipal Water Authority; Northeast Texas Municipal Water District; North Texas Municipal Water District; Orange County; Pecos River Commission: Red Bluff Water Power Control District; Red River Authority of Texas; Sabine River Authority of Texas; Sabine River Compact Administration; San Antonio City Public Service Board; San Antonio River Authority; San Antonio Water System; San Jacinto River Authority; Somervell County Water District; Tarrant Regional Water District; Texas Soil & Water Conservation Board; Texas State Department of Highways & Public Transportations; Texas Natural Resources Conservation Commission; Titus County Fresh Water Supply District No. 1; Trinity River Authority; Upper Colorado River Authority; Upper Guadalupe River Authority; Upper Neches River Municipal Water Authority; West Central Texas Municipal Water District; and Wichita County Water Improvement District No. 2.

### HYDROLOGIC CONDITIONS

Large variations in precipitation, runoff, and streamflow characterize the usual hydrologic conditions in Texas. In the eastern part of the State, streams typically are deep with wide alluvial flood plains, and streamflow is perennial. In the western part of the State, most streams flow through arroyos, and streamflow usually is ephemeral.

Streamflow across the State averaged normal during water year 2002.

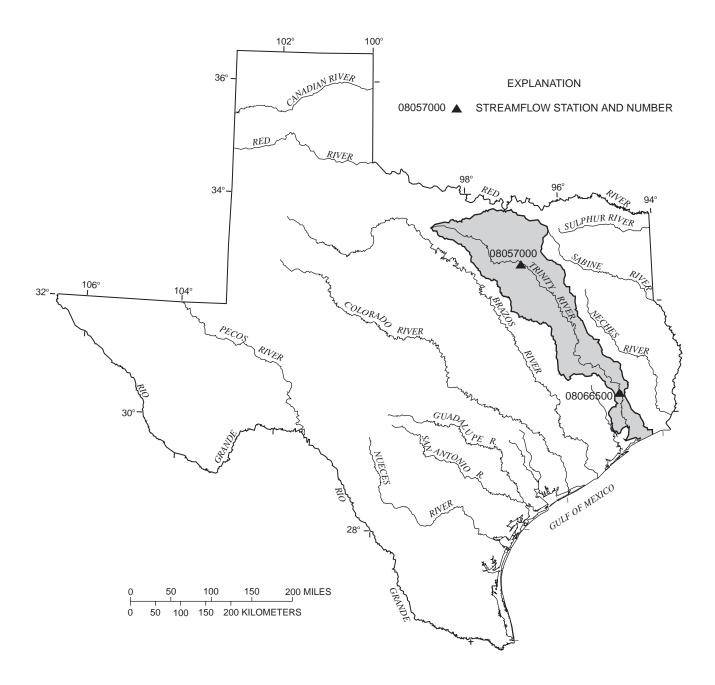
Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,481,000 acre-feet, increased from 76 percent at the end of September 2001 to 77 percent at the end of September 2002. Records from these reservoirs indicate that storage increased in 34, decreased in 39, and remained the same in 4.

The area for which water resources data are presented in volume 2 includes the Trinity River Basin and Intervening Costal Basins. The area described in volume 2 and the location of selected streamflow stations in the area are shown in figure 1.

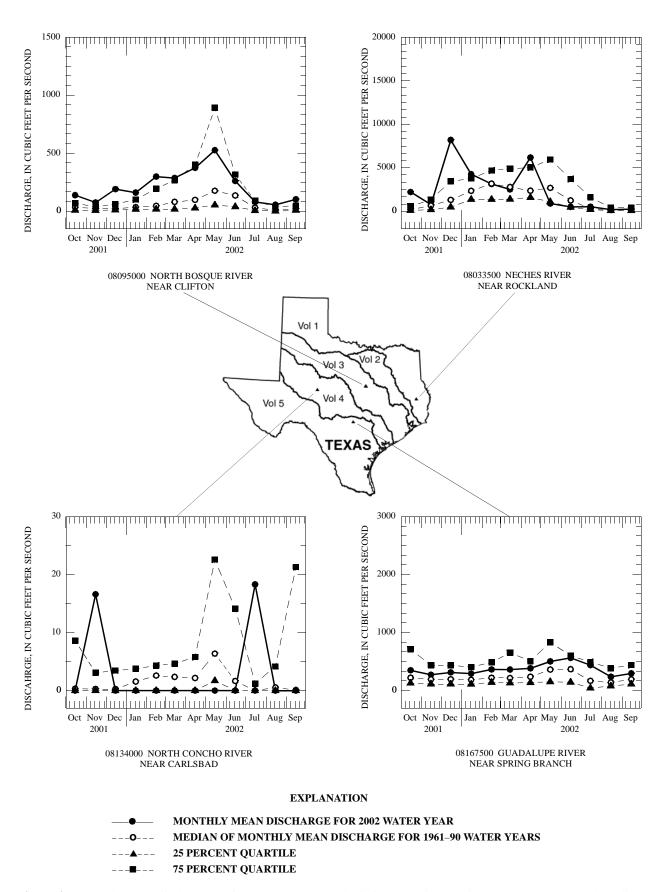
### Streamflow

In the area covered in volume 2, streamflow averaged normal during water year 2002. Streamflow for water year 2002 and for the period of record at two selected stations (fig. 1) for which data are included in volume 2 is presented in table 1.

At the four long-term hydrologic index stations in the State, monthly mean streamflow during water year 2002 averaged normal. Monthly mean discharges for water year 2002 and the median of the long-term monthly means for water years 1961–90 for the four long-term hydrologic index stations in the State are shown in figure 2. Streamflow at the hydrologic index station Neches River near Rockland was normal during November, February, March and June through September, above normal during October, December, January, and April, and below normal during May. The station North Bosque River near Clifton had normal streamflow April through June and August, above normal streamflow during November



**Figure 1.** Area of Texas covered by volume 2 (shaded) and location of selected streamflow stations in volume 2.



**Figure 2.** Monthly mean discharges at four long-term hydrologic index stations during 2002 water year and median of the monthly mean discharges for 1961–90 water years.

through March and July, and below normal streamflow in September. The station North Concho River near Carlsbad had normal streamflow for October, December through April, June, August, and September, above normal streamflow during November and July, and below normal streamflow in May. Streamflow for the station Guadalupe River near Spring Branch was normal during October, February through June and September, above normal for November through January, July, and August of water year 2002.

Conservation storage in 14 selected reservoirs in this area of the State, with a total combined conservation capacity of 6,816,000 acre-feet, remained at 93 percent of capacity from the end of September 2001 to the end of September 2002. Records from these reservoirs indicate that storage increased in 7 and decreased in 7.

### **Water Quality**

Dissolved-solids concentrations in most streams in the State are inversely related to streamflow discharges. During years when precipitation and runoff are less than normal, streamflow commonly is more mineralized than during years when precipitation and runoff are normal or greater than normal. However, for streams in which discharge is controlled by reservoirs, the dissolved-solids concentrations may remain relatively constant despite substantial fluctuations in precipitation and runoff.

		Table 1. Stream	nflow at two sele	cted station	<u>1S</u>		
Station no. and name		2002	Discharge during 2002 water year (cubic feet per second)		Discharge during period of record (cubic feet per second)		
		Maximum instantaneous	Minimum daily mean	Mean	Maximum instantaneous	Minimus daily mea	
Trinity Rive	r Basin						
08057000	Trinity River at Dallas, TX	32,400	433	2,072	111,000	10	1,826 (1931-2002)
08066500	Trinity River at Romayor, TX	40,500	1,160	8,193	122,000	104	7,867 (1924-2002)

# SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <a href="http://water.usgs.gov/hbn/">http://water.usgs.gov/hbn/</a>.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at http:// water.usgs.gov/nasqan/.

Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and

future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at <a href="http://bqs.usgs.gov/acidrain/">http://bqs.usgs.gov/acidrain/</a>.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at <a href="http://water.usgs.gov/nawqa/">http://water.usgs.gov/nawqa/</a>.

<u>Radiochemical Program</u> is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

<u>Tritium Network</u> is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

### EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain stage and streamflow data, stage and content data for lakes and reservoirs, and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

## **Station Identification Numbers**

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

## **Downstream Order Numbering**

Since October 1, 1950, the order of listing hydrologic-station records in U.S. Geological Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 08057000, which appears just to the left of the station name, includes the 2-digit Part number "08" plus

the 6-digit downstream-order number "057000." The Part number designates the major river basin; for example, Part "08" is the Western Gulf of Mexico basin.

## **Records of Stage and Water Discharge**

Records of stage and streamflow may be complete or partial. Complete records of discharge are those obtained using a stage-recording device through which either instantaneous or daily mean discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated for any time, or period of time. They may be obtained using a stage-recording device, but need not be. Because daily-mean discharges and daily-mean reservoir contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Flood-hydrograph partial records," "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow channel gain and loss studies, may be considered as partial records, but they are presented separately in this report. Instantaneous peak discharges are presented for all but the low-flow partial-record stations.

## **Data Collection and Computation**

The data obtained at a complete record gaging station on a stream or canal consist of records of stage (that is recorded every 5, 15, 30, or 60 minutes), measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relation between stage and discharge. These data, together with supplemental information such as weather records, are used to compute daily mean discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relation between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute lake storage.

Records of stage are obtained with recorders at selected time intervals. Measurements of discharge are made with current meters and indirect procedures using methods adopted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, TWRI, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves then are constructed. From these curves, rating tables indicating the discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves can be extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques. Stage-discharge ratings at gaging stations are described in TWRI, Book 3, Chapter A10.

Instantaneous discharges are computed by applying each individual recorded stage (gage height) to the stage-discharge table. The daily mean discharge is computed as the mean of the instantaneous discharges. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the rating tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations, that the daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, bays, or other sources. This necessitates the use of the slope method in which the slope (fall) in a reach of the stream is a factor in computing discharge. The slope is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relation of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes are determined. If the stage-content relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation. Even when this is done, the contents computed may increase in error as the lapsed time

since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relations much as other stream discharges are computed.

For some streamflow gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the stage sensor or recorder fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily mean discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily-mean contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

#### **Data Presentation**

Streamflow data in this report are presented in a format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consists of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly-mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7- day low-flow minimums, and flow duration.

### Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years which the revisions apply to. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

## Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acrefeet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given.

### Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the daily mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period, expressed as "FOR WATER YEARS \_\_\_\_\_, BY WATER YEAR (WY)," will list the first and last water years of the range selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

#### Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS \_\_\_\_\_," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. However, data for partial water years, if any, will only be used in the statistical calculations, if appropriate. For example, all of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINI-MUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the column heading. When this occurs, it should be noted in the REMARKS paragraph or in footnotes. Selected streamflow

duration curve statistics and runoff data are also given. Runoff data is omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL SEVEN-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

MAXIMUM PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. Occasionally the meximum stage for a year may occur at midnight at the beginning or end of year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the

manuscript or in a footnote. If the dates of occurrence for the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

- 10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.
- 50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.
- 90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

## **Identifying Estimated Daily Discharge**

Estimated daily discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the

dates of the estimated record in the REMARKS paragraph of the station description.

## **Accuracy of the Records**

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent.

Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft<sup>3</sup>/s; to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures for more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

### Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables, is on file in the Texas District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

### **Records of Surface-Water Quality**

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

## **Classification of Records**

Water-quality data for surface-water sites are grouped into one of three classifications.

A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin. A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values obtained by data logger. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

## Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

## **On-Site Measurements and Sample Collection**

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in

quality pending analysis, and in shipping the samples to the laboratory. Records of surface-water quality at some National Water Quality Accounting (NAWQA) Sites include data collected by different government agencies as identified in the water-quality data tables under AGENCY COLLECTING SAMPLE (CODE NUMBER). Values for this code are given below:

1028 - U.S. Geological Survey

84823 - International Boundary & Water Commission

Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Texas Office of the Central Region Office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (NASQAN) (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector. Information on the method used to collect the sample at National Stream Quality Accounting Network sites is given in the water-quality data tables under SAMPLING METHOD. Values for this code are given below:

10 - Equal Width Increment (EWI)

20 - Equal Discharge Increment (EDI)

25 - Timed Sampling Interval

30 - Single Vertical

40 - Multiple Verticals

50 - Point Sample

60 - Weighted Bottle

70 - Grab Sample (DIP)

90 - Discharge Integrated, Centroid

120 - Velocity Integrated

8010 - Other

Detailed information on sampling methods may be found in the following publications: OFR-90-127 "Guidelines for Collection and Analysis of Water-Quality Samples from Streams in Texas", OFR-94-455 "Field Guide for Collecting and Processing Stream-Water Samples for the National Water-Quality Assessment Program", and OFR-94-539 "U.S. Geological Survey protocol for the collection and processing of surfacewater samples for the subsequent determination of inorganic constituents in filtered water". Specific questions pertaining to water-quality sample collection may be directed to the District Water-Quality Specialist in Austin, Texas, or the Regional Water-Quality Specialist in Denver, Colorado.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

For chemical-quality stations equipped with water-quality monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly readings beginning at 0100 hours and ending at 2400 hours for the day of record.

## **Water Temperature**

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Texas District Office.

## Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge-weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### **Laboratory Measurements**

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the U.S. Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the U.S. Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Historical and current (2001) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

## **Data Presentation**

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily.

Tables of chemical, physical, biological, radio-chemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuousrecord station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. These periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

#### Remarks Codes

The following remark codes may appear with the waterquality data in this report:

Printed Output	Remark Code
e or E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
V	Analyte was detected in both the environmental sample and the associated blanks
M	Presence of material verified but not quantified
Printed Output	Value-Qualifier Code
d	Diluted sample: method hi range exceeded
v	Analyte detected in laboratory blank
q	Insufficient sample received
i	Result may be affected by interference
b	Value was extrapolated below
n	Below the NVD
r	Value verified by rerun, same method
p	Value reported is preferred
c	See laboratory coment
e	See field comment
k	Counts outside the acceptable range
Printed	
Output	Null Value-Qualifier Code
e	Required equipment not functional or available
i	Required sample type not received
r	Sample ruined in preparation
u	Unable to determine - matrix interference

**Dissolved Trace-Element Concentrations** 

\*NOTE:--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contami-

nation introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

\*NOTE:--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873).

## **Water-Quality Control Data**

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

## **Blank Samples**

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

Field blank – a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank – a blank solution that is put in the same type of bottle used for an environmental sample, and kept with the set of sample bottles before and after sample collection.

Equipment blank – a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to field blank but normally done in the more controlled conditions of the office).

Sampler blank – a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

Filter blank – a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank – a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank – a blank solution that is treated with the sample preservatives used for an environmental sample.

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

## **Reference Samples**

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

## **Replicate Samples**

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this District are:

Concurrent sample – a type of replicate sample in which the samples are collected simultaneoulsy with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample – a type of replicate sample in which the samples collected one after the other, typically over a short time.

Split sample – a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

## **Spike Samples**

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Concurrent sample – a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample – a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

## ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (www). These data may be accessed at http://tx.usgs.gov

Some water-quality and ground-water data also are available through the www. In addition, data can be provided in various machine-readable formats on magnetic tape, 3-1/2 inch floppy disk or CD-ROM. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

## **DEFINITION OF TERMS**

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionar-

ies. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

**Acre-foot** (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

**Alkalinity** is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

**Aroclor** is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered

aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

**Ash mass** is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²). (See also "Biomass" and "Dry mass")

**Aspect** is the direction toward which a slope faces with respect to the compass.

**Bacteria** are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

**Bankfull stage,** as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

**Base flow** is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

**Bedload** is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

**Bedload discharge** (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be neces-

sary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

**Bed material** is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

**Benthic organisms** are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

**Biochemical oxygen demand** (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

**Biomass** is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

**Biomass pigment ratio** is an indicator of the total proportion of periphyton that are autotrophic (plants). This is also called the Autotrophic Index.

**Blue-green algae** (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**Bottom material** (See "Bed material")

**Bulk electrical conductivity** is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm³) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of

their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere  $4/3 \pi r^3$  cone  $1/3 \pi r^2 h$  cylinder  $\pi r^2 h$ .

pi  $(\pi)$  is the ratio of the circumference to the diameter of a circle; pi = 3.14159....

From cell volume, total algal biomass expressed as biovolume ( $\mu$ m<sup>3</sup>/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cfs-day (See "Cubic foot per second-day")

**Channel bars**, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (C. perfringens) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

**Coliphages** are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

**Color unit** is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

**Contents** is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

**Continuous-record station** is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

**Control** designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be

a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

**Control structure**, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, (ft<sup>3</sup>/s)/mi<sup>2</sup>] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

**Daily mean suspended-sediment concentration** is the timeweighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

**Daily-record station** is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

**Data collection platform** (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

**Data logger** is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

**Datum** is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

**Diatoms** are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**Diel** is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

**Dissolved** refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO<sub>3</sub>) can be converted to carbonate concentration by multiplying by 0.60.

**Diversity index** (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n} ,$$

where  $n_i$  is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

**Drainage area** of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

**Drainage basin** is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

**Dry mass** refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

**Dry weight** refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

**Embeddedness** is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis*, *Streptococcus feacium*, *Streptococcus avium*, and their variants. (See also "Bacteria")

**EPT Index** is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warmblooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing

for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

**Euglenoids** (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

**Fecal coliform bacteria** are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Fire algae** (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

**Flow-duration percentiles** are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

**Gage values** are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

**Gaging station** is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

**Gas chromatography/flame ionization detector** (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

**Habitat quality index** is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with

higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

**Hardness** of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO<sub>3</sub>).

**High tide** is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:

http://www.co-ops.nos.noaa.gov/tideglos.html

**Hilsenhoff's Biotic Index** (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum \frac{(n)(a)}{N}$$
,

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

**Hydrologic index stations** referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

**Hydrologic unit** is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

**Instantaneous discharge** is the discharge at a particular instant of time. (See also "Discharge")

**Island**, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

**Land-surface datum** (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heatflux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

**Light-attenuation coefficient,** also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L}$$
,

where  $I_o$  is the source light intensity, I is the light intensity at length L (in meters) from the source,  $\lambda$  is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_o} .$$

**Lipid** is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

**Low tide** is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site*:

http://www.co-ops.nos.noaa.gov/tideglos.html

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

**Mean discharge** (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

**Mean high** or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

**Measuring point** (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

**Membrane filter** is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or eggnymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

**Methylene blue active substances** (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, μg/g) is a unit expressing the concentration of a chemical constituent as the mass (micro-

grams) of the element per unit mass (gram) of material analyzed.

**Micrograms per kilogram** (UG/KG, μg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L,  $\mu$ g/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, μS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

**Milligrams per liter** (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

**Minimum reporting level** (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

**Miscellaneous site,** miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

**Multiple-plate samplers** are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88 (See "North American Vertical Datum of 1988")

**Natural substrate** refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

**Nekton** are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

**Nephelometric turbidity unit** (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

**Open** or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

**Organic carbon** (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

**Organism count/area** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m<sup>2</sup>), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

**Organochlorine compounds** are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

**Parameter code** is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be

the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

**Percent composition** or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

**Percent shading** is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

**Periodic-record station** is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

**Periphyton** is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

**Pesticides** are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

**pH** of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

**Picocurie** (PC, pCi) is one trillionth (1 x 10<sup>-12</sup>) of the amount of radioactive nuclide represented by a curie (Ci). A curie is

the quantity of radioactive nuclide that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

**Plankton** is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

**Polychlorinated biphenyls** (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

**Polychlorinated naphthalenes** (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

**Pool**, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

**Primary productivity (carbon method)** is expressed as milligrams of carbon per area per unit time [mg C/(m²/time)] for periphyton and macrophytes or per volume [mg C/(m³/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m²/time)] for periphyton and macrophytes or per volume [mg O/(m³/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

**Radioisotopes** are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms

of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

**Reach**, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow (7Q<sub>10</sub>) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the 7Q10 occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance

of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the  $7Q_{10}$ .

**Replicate samples** are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

**Return period** (See "Recurrence interval")

**Riffle**, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

**River mileage** is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

**Runoff** is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

**Sea level,** as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988).

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of pre-cipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

**Seven-day, 10-year low flow**  $(7Q_{10})$  is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the  $7Q_{10}$  is 10 years; the chance that the annual 7-day minimum flow will be less than the  $7Q_{10}$  is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

**Shelves**, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

**Sodium adsorption ratio** (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

**Soil-water content** is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

**Stable isotope ratio** (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

**Stage-discharge relation** is the relation between the watersurface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

**Substrate embeddedness class** is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

 0 no gravel or larger substrate
 3 26-50 percent

 1 > 75 percent
 4 5-25 percent

 2 51-75 percent
 5 < 5 percent</td>

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

**Surficial bed material** is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

**Suspended** (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended mate-rial collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

**Suspended sediment** is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

**Suspended-sediment discharge** (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge

(ft<sup>3</sup>/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

**Taxa** (**Species**) **richness** is the number of species (taxa) present in a defined area or sampling unit.

**Taxonomy** is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom: Animal
Phylum: Arthropoda
Class: Insecta

Order: Ephemeroptera
Family: Ephemeridae
Genus: *Hexagenia* 

Species: Hexagenia limbata

**Thalweg** is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

**Thermograph** is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

**Time-weighted average** is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

**Tons per acre-foot** (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

**Tons per day** (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

**Total coliform bacteria** are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

**Total discharge** is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other

than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

**Total length** (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

**Total load** refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

**Total organism count** is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

**Total sediment discharge** is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

**Transect**, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along

the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

**Unconfined aquifer** is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

**Water table** is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

**Water year** in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it

ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

**WDR** is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate dischargeweighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

**WSP** is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

## PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals titled the "Techniques of Water-Resources Investigations" that describe procedures for planning and conducting specialized work in water-resources investigations. The material in these manuals is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. Each chapter then is limited to a narrow field of the section subject matter. This publication format permits flexibility when revision or printing is required.

Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at http://water.usgs.gov/pubs/twri/. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superinten-

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# Book 1. Collection of Water Data by Direct Measurement Section D. Water Quality

- 1–D1. Water temperature—Influential factors, field measurement, and data presentation, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 p.
- 1–D2. Guidelines for collection and field analysis of groundwater samples for selected unstable constituents, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

#### **Book 2. Collection of Environmental Data**

#### Section D. Surface Geophysical Methods

- 2–D1. Application of surface geophysics to ground-water investigations, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.
- 2–D2. Application of seismic-refraction techniques to hydrologic studies, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

### Section E. Subsurface Geophysical Methods

- 2–E1. Application of borehole geophysics to water-resources investigations, by W.S. Keys and L.M. MacCary: USGS– TWRI book 2, chap. E1. 1971. 126 p.
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2–F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

## **Book 3. Applications of Hydraulics**

## Section A. Surface-Water Techniques

- 3–A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.
- 3–A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.
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- 3–A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.
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- 3–A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.
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- 3–A11. Measurement of discharge by the moving-boat method, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.
- 3–A12. Fluorometric procedures for dye tracing, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS– TWRI book 3, chap. A12. 1986. 34 p.
- 3–A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.
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- 3–A21 *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

## Section B. Ground-Water Techniques

- 3–B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
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- 3–B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.
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- 3-B4. Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow

- problems, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 p.
- 3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS-TWRI book 3, chap. B5. 1987. 15 p.
- 3–B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.
- 3–B7. Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
- 3–B8. System and boundary conceptualization in ground-water flow simulation, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

## Section C. Sedimentation and Erosion Techniques

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- 3–C2. Field methods for measurement of fluvial sediment, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
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- 4–A1. Some statistical tools in hydrology, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
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- 4–B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
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## Section D. Interrelated Phases of the Hydrologic Cycle

4–D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

### **Book 5. Laboratory Analysis**

## Section A. Water Analysis

- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M.J. Fishman and L.C. Friedman, editors: USGS-TWRI book 5, chap. A1. 1989. 545 p.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI book 5, chap. A2. 1971. 31 p.

- 5–A3. Methods for the determination of organic substances in water and fluvial sediments, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS– TWRI book 5, chap. A3. 1987. 80 p.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by L.J. Britton and P.E. Greeson, editors: USGS-TWRI book 5, chap. A4. 1989. 363 p.
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## Section C. Sediment Analysis

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#### **Book 6. Modeling Techniques**

#### Section A. Ground Water

- 6–A1. A modular three-dimensional finite-difference ground-water flow model, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.
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- 6–A3. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.
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- 6–A7. User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density groundwater flow, by Weixing Guo and Christian D. Langevin: USGS-TWRI book 6, chap. A7. 2002.
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7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 p.

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- 8–A2. Installation and service manual for U.S. Geological Survey manometers, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

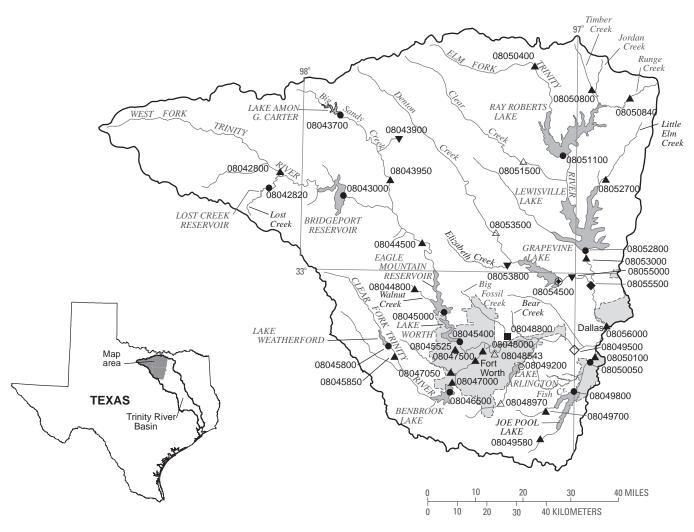
#### Section B. Instruments for Measurement of Discharge

8–B2. Calibration and maintenance of vertical-axis type current meters, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

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## Section A. National Field Manual for the Collection of Water-Quality Data

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## **EXPLANATION**

08042800	•	Surface-water continuous station and number
08048543	Δ	Surface-water continuous/water-quality station and number
08045000	•	Reservoir station and number
08054500	0	Reservoir/water-quality station and number
08053800	•	Water-quality station and number
08048800		Surface-water partial record/stage only station and number
08049500	$\Diamond$	Precipitation/water-quality station and number
08055500	<b>♦</b>	SW Continuous/precipitation station and number
08054500	•	Reservoir/precipitation station and number

Figure 3.--Map showing location of gaging stations in the first section of the Trinity River Basin

08042800	West Fork Trinity River near Jacksboro, TX	34
08042820	Lost Creek Reservoir near Jacksboro, TX	36
08043000	Bridgeport Reservoir above Bridgeport, TX	38
08043700	Lake Amon G. Carter near Bowie, TX	42
08043900	Lyndon B. Johnson National Grasslands near Alvord, TX	44
08043950	Big Sandy Creek near Chico, TX	46
08044500	West Fork Trinity River near Boyd, TX	48
08044800	Walnut Creek at Reno, TX	50
08045000	Eagle Mountain Reservoir above Fort Worth, TX	52
08045400	Lake Worth above Fort Worth, TX	54
08045525	Farmers Branch at Westworth Village, TX	56
08045800	Lake Weatherford near Weatherford, TX	58
08045850	Clear Fork Trinity River near Weatherford, TX	60
08046500	Benbrook Lake near Benbrook, TX	62
08047000	Clear Fork Trinity River near Benbrook, TX	66
08047050	Mary's Creek at Benbrook, TX	68
08047500	Clear Fork Trinity River at Fort Worth, TX	70
08048000	West Fork Trinity River at Fort Worth, TX	72
08048543	West Fork Trinity River at Beach Street, Fort Worth, TX	74
08048800	Big Fossil Creek at Haltom City, TX	363
08048970	Village Creek at Everman, TX	84
08049200	Lake Arlington at Arlington, TX	88
08049500	West Fork Trinity River at Grand Prairie, TX	94
08049580	Mountain Creek near Venus, TX	108
08049700	Walnut Creek near Mansfield, TX	110
08049800	Joe Pool Lake near Duncanville, TX	112
08050050	Mountain Creek Lake near Grand Prairie, TX	114
08050100	Mountain Creek at Grand Prairie, TX	116
08050400	Elm Fork Trinity River at Gainesville, TX	118
08050800	Timber Creek near Collinsville, TX	120
08050840	Range Creek near Collinsville, TX	122
08051100	Ray Roberts Lake near Pilot Point, TX	124
08051500	Clear Creek near Sanger, TX	126
08052700	Little Elm Creek near Aubrey, TX	132
08052800	Lewisville Lake near Lewisville, TX	134
08053000	Elm Fork Trinity River near Lewisville, TX	136
08053500	Denton Creek near Justin, TX	138
08053800	Elizabeth Creek at State Highway 114 near Roanoke, TX	142
08054500	Grapevine Lake near Grapevine, TX	144
08055000	Denton Creek near Grapevine, TX	156
08055500	Elm Fork Trinity River near Carrollton, TX	158
08056000	Elm Fork Trinity River at Frasier Dam, Dallas, TX	162

### 08042800 West Fork Trinity River near Jacksboro, TX

LOCATION.--Lat 33°17'30", long 98°04'49", Jack County, Hydrologic Unit 12030101, on upstream side of bridge on State Highway 59, 4.0 mi downstream from Big Cleveland Creek, 7.0 mi upstream from Carroll Creek, 7.0 mi northeast of Jacksboro and at mile 660.

DRAINAGE AREA. -- 683 mi<sup>2</sup>.

PERIOD OF RECORD.--Mar. 1956 to current year.
Water-quality records.--Sediment data: Oct. 1976 to Sept. 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 869.28 ft above NGVD of 1929 (from Texas Department of Transportation). Sept. 1960 to May 1961, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since 1974, at least 10% of contributing drainage area has been affected by discharge from the flood-detention pools of 21 floodwater-retarding structures. These structures control runoff from 70.9 mi<sup>2</sup> in the West Fork Trinity River drainage basin upstream from this station. No flow at times

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--18 years (water years 1956-73), 104 ft<sup>3</sup>/s (75,350 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1956-73).--Maximum discharge, 35,100 ft<sup>3</sup>/s, Apr. 27, 1957, gage height, 32.10 ft; no flow at times.

DISCHARGE FROM THE DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

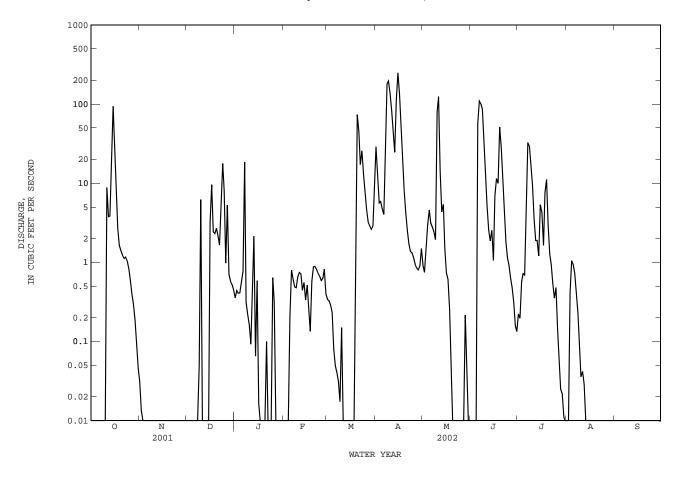
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1941 reached a stage of 30 ft, from information by local residents.

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.03 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.36 0.44 0.41 0.41 0.56	0.00 0.00 0.00 0.00 0.21	0.34 0.32 0.29 0.23 0.08	29 13 5.7 5.9 4.7	0.90 0.75 1.4 3.0 4.6	0.00 0.00 0.00 0.00 57	0.22 0.20 0.56 0.72 e0.69	0.00 0.00 0.41 1.0 0.95	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.05 6.2	0.78 19 0.31 0.22 0.16	0.80 0.61 0.49 0.47 0.65	0.05 0.04 0.03 0.02 0.15	4.0 20 179 196 136	3.2 2.8 2.4 1.9	110 101 86 34 13	e2.8 33 29 18 9.6	0.73 0.41 0.23 0.09 0.04	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	8.8 3.8 3.8 15 94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.09 0.47 2.1 0.06 0.58	0.74 0.71 0.44 0.56 0.33	0.00 0.00 0.00 0.00 0.00	83 43 25 113 249	124 14 4.3 5.4 1.5	5.2 2.6 1.9 2.5	3.6 1.9 1.9 1.2 5.3	0.04 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00
16 17 18 19 20	24 6.0 2.7 1.6 1.4	0.00 0.00 0.00 0.00 0.00	3.2 9.5 2.4 2.3 2.7	0.02 0.0 0.00 0.00 0.00	0.51 0.24 0.13 0.58 0.88	0.00 0.00 0.00 8.0 74	134 59 22 8.1 4.2	0.73 0.61 0.25 0.05 0.00	6.9 11 9.9 51 28	4.3 1.6 7.6 11 2.9	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
23 24 25				0.10 0.00 0.00 0.00 0.64				0.00 0.00 0.00 0.00			0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.59 0.40 0.30 0.19 0.09	0.00 0.00 0.00 0.00 0.00	0.97 5.3 0.70 0.58 0.53 0.45	0.31 0.00 0.00 0.00 0.00	0.63 0.81 0.40 	4.7 3.2 2.9 2.6 2.9 7.1	0.94 0.85 0.80 0.89 1.5	0.00 0.00 0.21 0.06 0.00	0.64 0.48 0.31 0.16 0.13	0.14 0.07 0.02 0.02 0.01 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	168.06 5.421 94 0.00 333	0.04 0.001 0.03 0.00 0.08	69.38 2.238 18 0.00 138	27.02 0.872 19 0.00 54	13.89 0.496 0.89 0.00 28	215.85 6.963 74 0.00 428	1346.58 44.89 249 0.80 2670	252.06 8.131 124 0.00 500	540.44 18.01 110 0.00 1070	139.97 4.515 33 0.00	3.93 0.127 1.0 0.00 7.8	0.00 0.000 0.00 0.00 0.00
STATIS	TICS OF M			FOR WATER Y	EARS 197	4 - 2002	z, BY WAT	ER YEAR (W	IY)			
MEAN MAX (WY) MIN (WY)	136.8 2363 1982 0.000 1978	41.74 219 1975 0.000 1978	59.99 1025 1992 0.000 1978	33.01 369 1985 0.000 1978	103.5 1049 1997 0.000 1978	127.3 697 1990 0.000 1978	125.5 2383 1990 0.000 1980	351.2 3127 1989 0.000 1984	240.3 1689 1989 0.000 1984	26.47 251 1975 0.000 1978	16.23 134 1989 0.000 1980	42.99 332 1996 0.000 1982
SUMMAR	Y STATIST	ICS	FOR	2001 CALEN	IDAR YEAR		FOR 2002	WATER YEAR	!	WATER YEA	RS 1974 -	2002z
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				41782.19 114.5 5060 0.00 0.00			2777. 7. 249 0. 0. 279 7. 5510	609		108.7 468 0.0 29100 0.0 0.0 33300 31.5 78780	72 May 17 0 Apr 6 0 Apr 12 May 17 2 May 17	1990 1984 1989 1974 1974 1989 1989
50 PER 90 PER	CENT EXCE	EDS EDS		2.5 0.00	)		0.	30 00		0.9	0 0	

e Estimated

z Period of regulated streamflow.

## 08042800 West Fork Trinity River near Jacksboro, TX--Continued



#### 08042820 Lost Creek Reservoir near Jacksboro, TX

LOCATION.--Lat 33°14′36", long 98°07′11", Jack County, Hydrologic Unit 12030101, located on north streamward side of dam on Lost Creek 3.0 mi northeast of Jacksboro.

DRAINAGE AREA. -- 123 mi<sup>2</sup>.

PERIOD OF RECORD. -- Mar. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS. -- No estimated daily contents. Records good. The lake is formed by a zoned earth and rock fill embankment 2,245 ft long. NAMEND. --NO ENLINATED DAILY CONTENTS. RECORDS GOOD. THE LAKE IS FORMED BY A ZONED EARTH AND TOCK fill embankment 2,245 ft long The dam was completed and storage began in early to mid 1990. A 60-inch diameter reinforced concrete tower serves as the principal spillway. The emergency spillway is an earth-cut side-channel spillway. The dam was built by the city of Jacksboro to impound water for municipal and recreational use. There was no known diversion from the lake during the current water year. Conservation pool storage is 11,960 acre-ft. Data regarding the dam is given in the following table:

	Elevation
	(feet)
Top of dam	1028.0
Crest of spillway	1009.0
Crest of emergency spillway	1016.0
Lowest gated outlet (invert)	947.0

COOPERATION.--Capacity table was furnished by the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD. --Maximum contents, 13,440 acre-ft, Feb. 16, 2001, elevation, 1012.95 ft; minimum contents, 8,680 acre-ft, Oct. 20, 2000, elevation, 1000.56 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,900 acre-ft, June 16, 17, 18, elevation, 1,006.88 ft; minimum contents, 10,070 acre-ft, Mar. 17, 18, elevation, 1,004.66 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN MAR APR MAY JUN JUL AUG SEP 2.2 2.7 ---MEAN MAX MTN 1005.83 1005.50 1005.35 1005.14 1004.88 1004.99 1006.17 1006.65 1006.62 1006.31 1005.47 1005.01 +180

+50

+440

-20

-110

-320

CAL YR 2001 MAX 13040 MIN +1220 WTR YR 2002 MAX 10900 MIN 10080 (@) -420

-60

-80

-100

-120

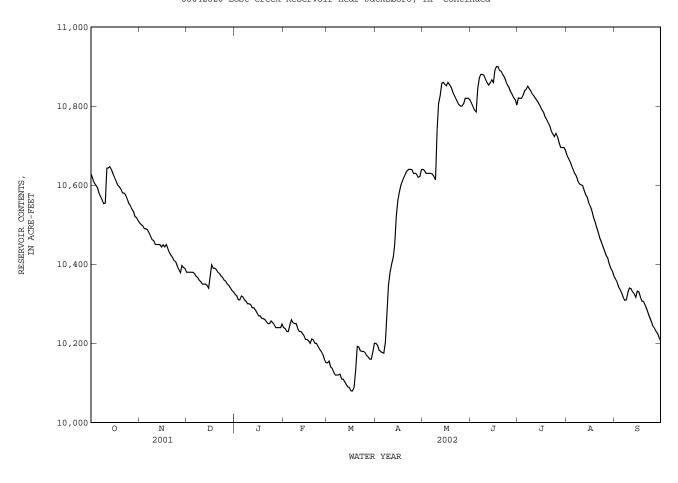
(@)

-120

Elevation, in feet, at end of month.

Change in contents, in acre-feet.

08042820 Lost Creek Reservoir near Jacksboro, TX--Continued



#### 08043000 Bridgeport Reservoir above Bridgeport, TX

LOCATION.--Lat  $33^{\circ}13'22"$ , long  $97^{\circ}49'54"$ , Wise County, Hydrologic Unit 12030101, in brick valve house on upstream side and near left end of Bridgeport Dam on West Fork Trinity River, 4.6 mi west of Bridgeport, 13.0 mi upstream from Big Sandy Creek and at mile 626

DRAINAGE AREA. -- 1,111 mi<sup>2</sup>.

PERIOD OF RECORD.--Apr. 1932 to current year. Prior to Oct. 1950, end of month values only. Water-quality records.--Chemical data: Oct. 1969 to Sept. 1984.

REVISED RECORDS .-- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Jan. 12, 1988, nonrecording gages at various sites in vicinity of present gage at present datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily contents, which are poor. The reservoir is formed by a rolled earthfill dam 2,040 ft long. The dam was completed in Dec. 1931 and storage began Apr. 1, 1932. The original dam was 1,900 ft long, but was lengthened to 2,040 ft in 1971-72. The original service spillway was eliminated during construction (1971-72), and a new spillway with approach and discharge channels was built through natural ground 2,800 ft from the left end of dam. The new spillway is 90 ft wide and has eight vertical lift gates that are 11.25 x 22-ft. The controlled outlet works consist of a 48-inch diameter and an 18-inch diameter pipe encased in a concrete conduit extending through the dam. In addition, a controlled 60-inch diameter steel pipe extends through the service spillway wall to the spillway discharge basin. The dam is owned by the Tarrant Regional Water District. For elevations of outlet works, see table below. Capacity tables are based on surveys made in 1956 and 1968. Conservation pool storage is 374,836 acre-ft. Data regarding the dam are given in the following table: following table:

Top of dam.  Crest of spillway.  Top of gates.  Top of conservation pool  Sill of gates.  Lowest value outlet (invert).	866.0 842.0 836.9 820.0
Lowest value outlet (invert)	/51.4

COOPERATION. -- Capacity table No. 5-C dated Oct. 1, 1988, was provided by Tarrant Regional Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 491,700 acre-ft, May 5, 1990, elevation, 844.36 ft; minimum contents observed since first appreciable storage in 1935, 7,170 acre-ft, Oct. 12-16, 1956.

EXTREMES FOR 2001 WY YEAR. -- Maximum contents, 383,700 acre-ft, Apr. 11, elevation, 836.68 ft; minimum contents, 169,400 acre-ft, Oct. 20, elevation, 816.09 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 313,400 acre-ft, June 8, 9, 10, elevation, 830.98 ft; minimum contents, 278,600 acre-ft, Mar. 17, elevation, 827.86 ft.

RESERVOIR STORAGE FROM DCP/EDL, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

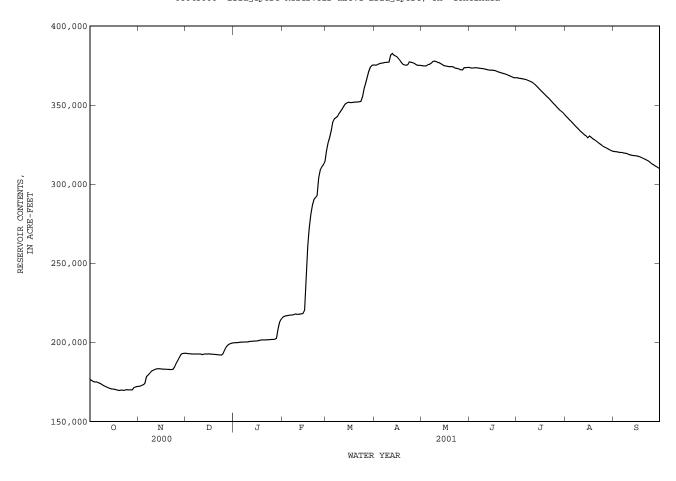
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176500	172300	193100	199700	215800	321200	375300	375000	373500	367200	343100	320700
2	175900	172300	193000	199800	216400	326300	375300	374800	373400	367000	342100	320500
3	175200	172800	192900	199800	216700	329300	375800	374800	373400	366900	341000	320400
4	175000	173200	192700	199900	217000	333600	376200	374900	373600	366700	340000	320200
5	175000	174200	192700	200100	217100	339100	376500	375700	373600	366500	339000	320000
6 7 8 9 10	174600 174200 173600 173000 172500	178400 179400 180400 181600 182200	192700 192700 192700 192600 192700	200200 200200 200200 200200 200200 200400	217200 217300 217500 217900 217800	341200 342000 342700 344600 345900	376600 376900 377000 377100 377200	375800 376500 377600 377900 377500	373500 373300 373100 373100 372900	366200 365900 365500 365100 364700	338000 336900 335900 334800 333800	320000 319700 319600 319300 318800
11	171900	182600	192600	200700	217800	347500	381700	377000	372700	364000	332900	318600
12	171500	183200	192300	200700	217800	349200	382600	376800	372400	363200	332000	318400
13	171100	183400	192600	200800	218000	350600	381600	376200	372100	362400	331100	318200
14	170800	183400	192700	200900	218300	351300	381100	375600	372000	361300	330400	318000
15	170500	183200	192700	200900	220300	351800	380500	375000	372200	360200	329300	317900
16	170500	183200	192700	201000	244100	351600	379400	374700	371900	359200	330500	317800
17	170200	183100	192600	201200	261300	351600	378100	374600	371700	358200	329800	317400
18	169900	183000	192500	201400	272300	351800	376800	374400	371300	357200	328800	316900
19	169600	183000	192400	201600	280900	351900	375600	374300	370900	356300	328200	e316500
20	169700	182900	192400	201600	286700	351900	375300	374400	370600	355200	327600	316000
21	169900	182800	192200	201600	290300	352000	375300	374200	370400	354300	326800	315600
22	169700	182800	192100	201600	291500	352100	375500	373500	370100	353300	326000	315000
23	169700	183000	192100	201700	292800	352300	377300	373200	369700	352200	325300	314500
24	170100	184400	192100	201800	304000	355200	377100	373000	369300	351100	324600	313700
25	170000	186800	193000	201900	309000	360500	376800	372600	368900	350100	323800	312900
26 27 28 29 30 31	170000 170000 170000 171400 171800 172100	188600 190600 192300 192900 193100	195300 197200 198300 198900 199300 199600	201900 202000 202500 208500 212700 214500	310900 312200 314200 	363500 367400 371300 374000 375100 375400	376400 375800 375200 375200 375100	372400 372300 373700 373700 373800 373900	368700 368000 367600 367300 367300	349000 348000 347000 346100 345300 344300	323200 322800 322300 321700 321200 320800	312200 311600 311000 310400 309800
MEAN	171800	182500	193700	202000	251200	350800	377200	374800	371300	358100	330400	316700
MAX	176500	193100	199600	214500	314200	375400	382600	377900	373600	367200	343100	320700
MIN	169600	172300	192100	199700	215800	321200	375100	372300	367300	344300	320800	309800
(+)	816.43	818.95	819.70	821.38	831.05	836.05	836.02	835.93	835.42	833.57	831.62	830.68
(@)	-4700	+21000	+6500	+14900	+99700	+61200	-300	-1200	-6600	-23000	-23500	-11000

CAL YR 2000 MAX 223300 MIN 169600 (@) -22000 WTR YR 2001 MAX 382600 MIN 169600 (@) +133000

Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08043000 Bridgeport Reservoir above Bridgeport, TX--Continued



## 08043000 Bridgeport Reservoir above Bridgeport, TX--Continued

## RESERVOIR STORAGE FROM DCP/EDL, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

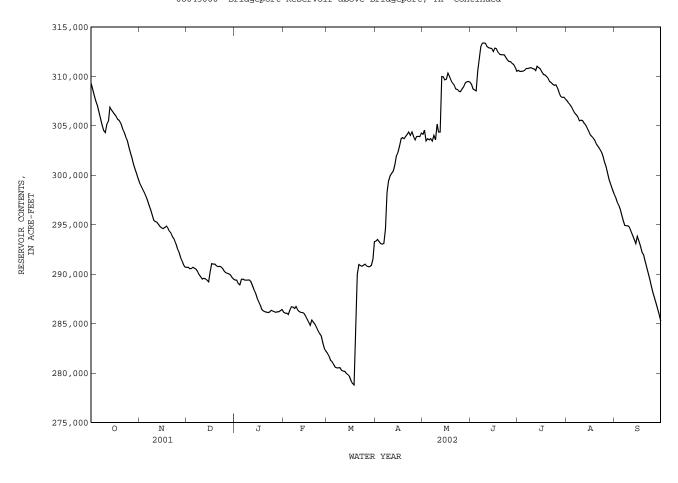
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309300	299200	290700	289400	286100	282000	293300	e304200	309200	310600	307600	297800
2	308700	298900	290700	289400	286100	281700	293500	e304600	308700	310500	307300	297400
3	308000	298600	290500	289100	286000	281300	293300	e303500	308600	310500	307100	297000
4	307500	298200	290600	288900	285900	281100	293100	e303700	308500	310500	306900	296600
5	307000	297900	290700	289500	286400	280900	293000	e303600	310600	310600	306600	296000
6	306300	297500	290600	289500	286700	280600	293100	e303700	311800	310800	306300	295400
7	305700	296900	290500	289400	286700	280500	294600	e303500	313000	310800	306100	294900
8	305000	296500	290300	289400	286500	280500	298300	e304000	313400	310900	305900	294900
9	304500	296000	290000	289400	286700	280500	299400	e303600	313400	310900	305500	294900
10	304300	295500	289700	289400	286400	280300	299900	e305200	313300	310800	305600	294800
11	305200	295300	289500	289300	286200	280200	300200	e304400	313000	310800	305500	294400
12	305500	295200	289600	288900	286100	280200	300400	e304400	312900	310600	305300	294000
13	306900	295000	289500	288500	286100	280000	301000	e310000	312900	311000	305100	293500
14	306600	294800	289400	288100	286000	279900	301900	310000	312800	310900	304800	293100
15	306400	294700	289200	287600	285800	279700	302300	309600	312500	310800	304500	293800
16	306200	294600	290200	287200	285400	279200	303000	309700	312900	310500	304100	293300
17	306000	294700	291100	286900	285100	279000	303700	310400	312800	310200	303900	292800
18	305700	294900	291000	286400	284800	e278800	e303800	310000	312400	310200	303700	292200
19	305500	294700	291000	286300	285400	e283800	e303700	309600	312200	310000	303500	292000
20	305200	294300	290800	286200	285100	290000	e303900	309300	312200	309800	303100	291300
21	304700	294100	290800	286200	284900	291000	e304200	309100	312200	309500	302900	290700
22	304400	293800	290800	286100	284600	290900	e304400	308700	312200	309400	302700	290100
23	303900	293600	290700	286200	284300	290800	e304000	308700	311900	309200	302400	289400
24	303600	293200	290600	286300	284000	290900	e304400	308500	311700	309100	302000	288800
25	302900	292600	290300	286300	283700	291000	e303900	308500	311500	309100	301400	288100
26 27 28 29 30 31	302300 301800 301100 300600 300100 299600	292300 291700 291400 291000 290700	290100 290100 290000 289900 289700 289500	286200 286100 286200 286200 286300 286400	283000 282500 282200 	290800 290800 290800 290900 291500 293300	e303600 e303900 e303900 e303900 e304300	308700 308900 309300 309400 309500 309400	311500 311300 311200 310900 310500	308800 308400 308000 307900 307900 307700	300900 300200 299500 299100 298600 298200	287600 287000 286400 285900 285200
MEAN	304900	294900	290300	287700	285300	284600	300500	307300	311700	309900	303800	292300
MAX	309300	299200	291100	289500	286700	293300	304400	310400	313400	311000	307600	297800
MIN	299600	290700	289200	286100	282200	278800	293000	303500	308500	307700	298200	285200
(+)	829.78	828.97	828.86	828.58	828.19	829.21	e830.19	830.64	830.73	830.49	829.65	828.47
(@)	-10200	-8900	-1200	-3100	-4200	+11100	+11000	+5100	+1100	-2800	-9500	-13000

CAL YR 2001 MAX 382600 MIN 199700 (@) +89900 WTR YR 2002 MAX 313400 MIN 278800 (@) -24600

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.(@) Change in contents, in acre-feet.

08043000 Bridgeport Reservoir above Bridgeport, TX--Continued



### 08043700 Lake Amon G. Carter near Bowie, TX

LOCATION.--Lat 33°28'08", long 97°51'56", Montague County, Hydrologic Unit 12030101, on Big Sandy Creek, in pumping station 7.1 mi south of Bowie.

DRAINAGE AREA. -- 100.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- Mar. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station with voice modem.

REMARKS.--Records good except those for estimated daily contents, which are fair. In 1954 the original lake was formed by an earthfill dam 2,000 ft across Big Sandy Creek for the city of Bowie. In 1985 a new reservoir dam was completed 1.0 mi below the old dam. The old and new portions of the reservoir are connected by a corrugated metal pipe arch culvert (boat pass breach) with an invert elevation of 908 ft NGVD of 1929. The reservoirs are also connected by 12 in siphon pipe through the old dam. Both reservoirs employ the emergency spillway on the old reservoir to pass flood water above elevation of 927 ft NGVD of 1929. The principal spillway tower has a 24 ft uncontrolled weir at 920 ft NGVD of 1929. Conservation pool storage is 28,589 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of new dam	945.0
Crest of spillway	927.0
Conservation pool & uncontrolled weir	920.0
Pipe arch culvert (boat pass breach)	908.0

COOPERATION. -- Capacity table was provided by the Texas Water Development Board, and put into effect Mar. 3, 1999.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 38,060 acre-ft, Mar. 1, 2001, elevation, 924.46 ft; minimum contents, 14,180 acre-ft, Oct. 13, 2000, elevation, 910.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,500 acre-ft, June 7, elevation, 919.93 ft; minimum contents, 23,800 acre-ft, Mar. 16, elevation, 917.16 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

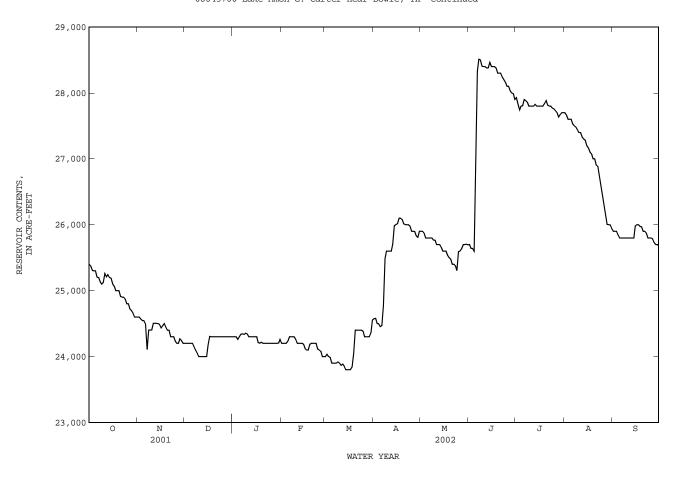
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25400	24600	24200	24300	24200	24000	24600	25900	25700	27900	27700	25900
2	25400	24600	24200	24300	24200	24000	24600	25900	25600	27800	27700	25900
3	25300	24600	24200	24300	24200	24000	24500	25900	e25600	27700	27600	25900
4	25300	24500	24200	24300	24200	24000	24500	25800	e25600	27800	27600	25800
5	25300	24500	24200	24300	24200	23900	24500	25800	27200	27800	27600	25800
6 7 8 9	25200 25200 25100 25100 25100	e24500 e24100 e24400 e24400 e24400	24200 24200 24100 24100 24000	24300 24300 24300 24400 24300	24300 24300 24300 24300 24300	23900 23900 23900 23900 23900	24500 24800 25500 25600 25600	25800 25800 25800 25800 25800	e28300 e28500 28500 28400 28400	27900 27900 27900 27800 27800	27500 27500 27500 27400 27400	25800 25800 25800 25800 25800
11	25300	e24500	24000	24300	24200	23900	25600	25700	28400	27800	27400	25800
12	25200	e24500	24000	24300	24200	23900	25600	25700	28400	27800	27300	25800
13	25200	e24500	24000	24300	24200	23900	25700	25700	28400	27800	27300	25800
14	25200	24500	24000	24300	24200	23800	26000	25700	28500	27800	27300	25800
15	25200	24500	24000	24300	24200	23800	26000	25600	28400	27800	27200	26000
16	25100	24400	24200	24300	24100	23800	26000	25600	28400	27800	27200	26000
17	25100	24500	24300	24200	24100	23800	26100	25600	28400	27800	27100	26000
18	25000	24500	24300	24200	24100	23800	26100	25500	28400	27800	27100	26000
19	25000	24400	24300	24200	24200	24000	26100	25500	28300	27800	27000	26000
20	25000	24400	24300	24200	24200	24400	26000	25500	28300	27900	27000	25900
21	24900	24400	24300	24200	24200	24400	26000	25400	28300	27800	26900	25900
22	24900	24300	24300	24200	24200	24400	26000	25400	28200	27800	26900	25900
23	24900	24300	24300	24200	24200	24400	26000	25400	28200	27800	26800	25800
24	24900	24300	24300	24200	24100	24400	26000	25300	28200	27800	26600	25800
25	24800	24200	24300	24200	24100	24400	25900	25600	28100	27800	26500	25800
26 27 28 29 30 31	24800 24700 24700 24700 24600 24600	24200 24200 24300 24200 24200	24300 24300 24300 24300 24300 24300	24200 24200 24200 24200 24200 24300	24100 24000 24000 	24300 24300 24300 24300 24400 24600	25900 25900 25800 25800 25900	25600 25600 25700 25700 e25700 e25700	28100 28000 28000 28000 27900	27700 27700 27600 27700 27700 27700	26300 26100 26000 26000 26000 25900	25800 25700 25700 25700 25700
MEAN	25000	24400	24200	24300	24200	24100	25600	25700	27900	27800	27000	25800
MAX	25400	24600	24300	24400	24300	24600	26100	25900	28500	27900	27700	26000
MIN	24600	24100	24000	24200	24000	23800	24500	25300	25600	27600	25900	25700
(+)	917.65	917.41	917.45	917.43	917.29	917.61	918.43	918.29	919.61	919.48	918.44	918.28
(@)	-820	-400	+100	0	-300	+600	+1300	-200	+2200	-200	-1800	-200

CAT. YR 2001 MAX 38000 MTN 21300 (@) +3010 WTR YR 2002 MAX 28500 MIN 23800 (@)

<sup>(+)</sup> Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

e Estimated

# 08043700 Lake Amon G. Carter near Bowie, TX--Continued



# 08043900 Lyndon B. Johnson National Grasslands near Alvord, TX (National Atmospheric Deposition Program (NADP))

#### PRECIPITATION WATER-QUALITY RECORDS

LOCATION.--Lat 33°23'30", long 97°38'23", Wise County, Hydrologic Unit 12030101, at State Highway 11, 6 mi northeast of Alvord and 11 mi north of Decatur.

OWNER. -- U.S. Geological Survey.

PERIOD OF RECORD.--July 1984 to Sept. 2002 (discountinued).

INSTRUMENTATION.--Wet/dry precipitation collector, weighing-bucket type recording rain gage with event recorder, and a National Weather Service 8-in rain gage (back-up only).

EXTREMES FOR CURRENT YEAR.--Maximum field pH, 6.3, Jan. 22-29, Feb. 26-Mar. 5, June 11-18: minimum field pH, 4.5, Sept. 10-17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG- NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS- SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	NI- TROGEN AMMON. ATM DEP WET DIS AS N (MG/L) (83044)	NI- TROGEN NITRATE ATM DEP WET DIS AS N (MG/L) (83068)	CHLO- RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	CALCIUM ATM DEP WET DIS (MG/M2) (82933)	MAG- NESIUM ATM DEP WET DIS (MG/M2) (83003)
OCT 30- NOV 06	0905	0	0	1.75	.17	.18	1.08	.790	1.53	1.64	3.46	.6	.1
NOV 13-20	0905	e	4.6	.42	.04	.37	.23	.120	.430	.72	1.39	3.0	.3
DEC 11-18	0905	9	4.9	.08	M	M	.03	.080	.100	.05	.54	5.3	.3
DEC 26 2001-						.03		<.090					U
JAN 02 2002 JAN	0855	0	0	. 28	.02		<.02		.420	.10	.65	.1	
22-29 JAN 29-	0905	16	6.3	.91	.04	.05	. 23	.660	.340	.15	2.69	7.4	. 4
FEB 05 FEB	0905	13	4.8	.18	.02	.02	.17	.250	.250	.28	.98	3.1	. 4
05-12 FEB	1035	6	5.0	<.01	<.003	<.003	М	.050	.090	.02	.34	<.1	<.02
12-19 FEB 26-	0905	11	5.7	.60	.04	.04	.26	.300	.150	.26	1.40	13.5	.9
MAR 05 MAR	0905	23	6.3	1.80	.12	.10	.41	.580	.770	.28	2.36	8.7	.6
12-19 MAR	0905	15	4.8	.19	.03	.04	.23	.330	.180	.32	1.42	11.4	1.8
19-26 MAR 26-	0905	7	5.3	.11	.01	.01	.04	.120	.100	.05	.56	5.6	.3
APR 02 APR	0908	8	5.9	.52	.02	.04	.06	.200	.160	.10	.98	23.6	1.0
02-09	0830	13	5.1	.58	.03	.06	.11	.330	.200	.20	1.68	42.3	2.3
APR 09-16	0915	14	4.8	.42	.03	.04	.12	.350	.450	.16	1.63	9.5	.7
APR 16-23	0900	0	0	1.72	.15	.22	.72	1.06	.800	1.25	4.68	1.7	.1
APR 30- MAY 07	0930	12	5.7	1.03	.06	.14	.22	.530	.520	.32	2.13	4.3	.3
MAY 07-14	0850	13	5.5	.40	.05	.09	.33	.550	.250	.48	1.61	15.7	2.0
MAY 21-28	0905	11	6.0	.43	.07	.22	.29	.050	.240	.50	1.13	24.1	3.7
MAY 28- JUN 04	0855	6	5.4	.12	.02	.03	.10	.150	.130	.13	.40	.7	.1
JUN 04-11	0945	8	5.4	.20	.02	.11	.11	.230	.160	.18	.92	15.9	1.7
JUN 11-18	0850	9	6.3	.75	.03	.05	.11	.200	.220	.16	.69	26.0	1.0
JUN 25- JUL 02	0945	9	5.3	.20	.04	.04	.20	.180	.180	.35	1.16	6.5	1.4
JUL 02-09	0925	10	5.8	.24	.03	.18	.31	.020	.220	.52	1.08	12.0	1.7
JUL 09-16	0910	8	6.0	.57	.01	.05	.03	.270	.300	.07	.67	25.6	.7
JUL													
16-23 JUL	0915	12	4.7	.18	.01	.09	.04	.100	.320	.08	.98	2.2	.2
23-30 JUL 30-	0925	9	5.8	.55	.04	.02	.17	.180	.240	.28	.67	19.1	1.3
AUG 06 AUG	0905	10	5.9	.52	.06	.01	.40	.250	.250	.63	.88	6.8	.8
20-27 SEP	0905	10	5.2	.69	.04	.05	.10	.120	.260	.16	.88	9.8	. 5
03-10 SEP	0922	9	6.1	.12	.04	.81	.06	.510	.110	.14	.74	3.3	1.1
10-17	0940	18	4.5	.34	.01	.02	.01	.340	.390	.06	2.08	7.6	.3

08043900 Lyndon B. Johnson National Grasslands near Alvord, TX--Continued (National Atmospheric Deposition Program (NADP))

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	POTAS- SIUM ATM DEP WET DIS (MG/M2) (83121)	SODIUM ATM DEP WET DIS (MG/M2) (83139)	NI- TROGEN AMMON. ATM DEP WET DIS AS N (MG/M2) (83045)	NI- TROGEN NITRATE ATM DEP WET DIS AS N (MG/M2) (83069)	CHLO- RIDE ATM DEP WET DIS (MG/M2) (82945)	SULFATE ATM DEP WET DIS AS SO4 (MG/M2) (83161)	VOLUME ATM DEP WET (L) (83177)
OCT 30- NOV 06	.1	. 4	.300	.6	.6	1.3	.025
NOV 13-20	2.7	1.6	.900	3.1	5.2	10.0	.490
DEC 11-18	.3	1.7	5.10	6.4	3.3	35.7	4.484
DEC 26 2001- JAN 02 2002 JAN	U	<.005	<.030	.1	U	.2	.020
22-29	. 4	1.9	5.40	2.8	1.2	22.0	.554
JAN 29- FEB 05	.3	2.9	4.20	4.3	4.8	16.7	1.158
FEB 05-12 FEB	<.02	U	.400	.7	.2	2.8	.550
12-19	.9	5.9	6.70	3.4	5.9	31.6	1.530
FEB 26- MAR 05	.5	2.0	2.80	3.7	1.3	11.4	.327
MAR 12-19	2.1	13.5	20.0	10.8	19.2	85.0	4.063
MAR 19-26	. 4	1.8	6.40	5.1	2.6	28.6	3.464
MAR 26- APR 02	1.8	2.9	9.20	7.5	4.5	44.5	3.082
APR 02-09	4.1	8.1	23.8	14.4	14.6	122	4.951
APR 09-16	.9	2.7	7.90	10.3	3.6	37.0	1.541
APR 16-23	. 2	.7	1.00	.8	1.2	4.6	.067
APR 30- MAY 07	. 6	.9	2.20	2.2	1.3	8.9	.283
MAY 07-14	3.5	12.9	21.7	9.8	18.9	63.2	2.667
MAY 21-28	12.5	16.3	3.10	13.2	28.1	63.4	3.812
MAY 28-							
JUN 04 JUN	. 2	.6	.900	.8	.8	2.4	.407
04-11 JUN	8.5	9.0	18.5	12.7	14.3	73.0	5.391
11-18 JUN 25-	1.8	3.7	7.00	7.7	5.6	23.9	2.357
JUL 02 JUL	1.5	6.4	5.80	5.9	11.3	37.5	2.193
02-09 .ππ.	9.2	15.6	<.780	10.8	26.0	54.1	3.401
09-16 JUL	2.4	1.3	12.2	13.5	3.1	30.0	3.045
16-23 JUL	1.2	.5	1.20	3.9	1.0	12.1	.838
23-30	.8	6.1	6.20	8.3	9.7	23.3	2.363
JUL 30- AUG 06	.2	5.1	3.20	3.2	8.2	11.5	.884
AUG 20-27	.7	1.4	1.80	3.6	2.3	12.4	.960
SEP 03-10	22.1	1.7	14.0	3.0	3.8	20.2	1.854
SEP 10-17	. 4	.3	7.70	8.6	1.3	46.5	1.520

Remark codes used in this report:
<-- Less than
M -- Presence verified, not quantified
U -- Analyzed for, not detected

Null value qualifier codes used in this report: e -- Required equipment not functional/avail o -- Insufficient amount of water

#### 08043950 Big Sandy Creek near Chico, TX

LOCATION.--Lat  $33^{\circ}16'27"$ , long  $97^{\circ}40'42"$ , Wise County, Hydrologic Unit 12030101, at left downstream side of bridge on Farm Road 1810, 4.5 mi upstream from Greathouse Branch, 6.0 mi east of Chico, and 6.5 mi upstream from mouth.

DRAINAGE AREA. -- 312 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1936 to current year. Prior to 1996 water year, published as "near Bridgeport" (station 08044000).

Water-quality records.--Chemical data: Apr. 1993 to Sept. 1995. Biochemical data: Apr. 1993 to Sept. 1995. Sediment data: Apr. 1993 to Sept. 1995.

REVISED RECORDS. -- WSP 1148: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 728.88 ft above NGVD of 1929. Prior to May 24, 1996 at datum of 724.44 ft, prior to Oct. 1, 1984, at datum 3.00 ft higher. Satellite telemeter at station.

REMARKS.--Records poor. Since May 1, 1956, at least 10% of contributing drainage area has been regulated. During the year, the city of Bowie diverted water from Lake Amon G. Carter for municipal use and discharged wastewater effluent into tributaries to Big Sandy Creek upstream from this station. Flow is also affected at times by discharge from the flood-detention pools of 19 floodwater-retarding structures. These structures control runoff from a 46.0 mi<sup>2</sup> area upstream from this station and below Lake Amon G. Carter. No known diversions. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1936-55),  $85.6~{\rm ft}^3/{\rm s}$  ( $62,030~{\rm acre-ft/yr}$ ) at site and datum then in use.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1936-55).--Maximum discharge, 53,000 ft $^3$ /s June 10, 1941, gage height, 15.69 ft, at site and datum then in use; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1887 occurred in 1908 and 1915 and reached about the same stage as that of June 10, 1941, at site and datum then in use.

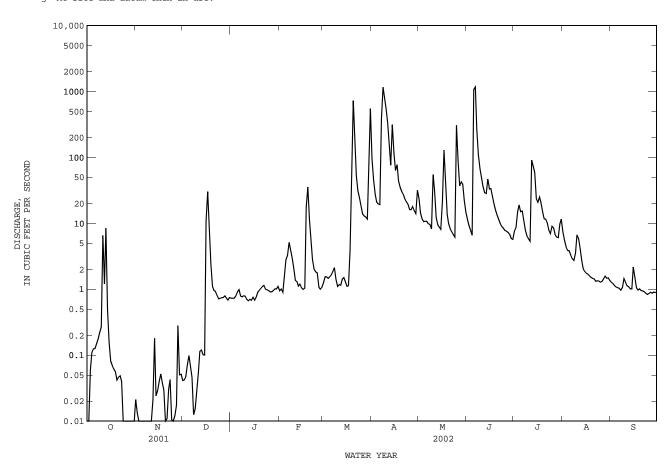
DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES DEC FEB SEP DAY OCT NOV JAN MAR APR MAY JUN JUL AUG 0 00 0.02 0 04 0.73 0 95 1 3 96 24 11 7 6 7.5 1 3 0.73 9.3 5.6 2 0.01 1.6 14 8.6 1.2 0.01 0.04 1.0 46 0.00 0.05 0.73 0.91 7.9 4.4 0.06 1.6 28 12 1.1 0 11 0 00 0.07 0 79 1 5 1 5 21 11 6.6 19 3.9 1 1 5 0.12 0.10 2.8 1.6 20 1070 15 3.9  $\bar{1}.1$ 0.00 0.91 11 6 7 0 13 0 01 0.07 0 99 3 3 1 7 19 11 1170 15 3 3 1 0 5.2 1.9 9.9 11 2.9 0.15 0.00 0.05 0.79 262 0.97 8 0.18 0.00 0.01 0.77 3.9 2.1 1170 9.7 110 7.8 2.7 3.6 6.7 0 22 0 00 0.02 0.80 3 0 1 4 e809 8.3 68 6 5 1 5 5.9 10 0.03 55 48 1.3 11 0 01 0.06 0 71 e335 31 36 5 4 5 9 1 1 6 6 1 4 1 2 0.12 0.67 1.2 4.2 12 0.02 1.3 e149 12 29 91 e77 13 8.5 0.18 0.12 0.70 1.4 9.5 28 75 2.7 1.0 0.50 14 0.02 0.10 0.68 1.2 1.5 315 8.8 47 59 2.1 1.0 8.2 1.9 15 21 0.04 11 1.00 34 21 16 0.08 0.69 1.1 64 1.7 1.5 17 0.07 0.05 30 0.76 1.0 1.1 78 130 26 25 18 0.06 0.04 7.7 0.90 18 3.9 44 40 20 21 1.6 0.98 2.4 0.97 136 19 0.06 0.03 36 35 14 16 15 1.5 1.0 0.04 12 31 9.9 20 731 0.01 0.97 27 8.3 11 12 21 0.05 1.1 5.5 166 0.95 1.4 22 0.05 0.03 0.93 1.1 2.8 24 7.5 10 10 1.3 0.92 54 23 0.04 0.04 0.81 1.0 2.0 31 21 6.7 9.0 8.0 1.3 0.87 0.98 20 0.72 6.2 24 0.00 0.01 1.8 8.4 7.0 1.3 24 0.84 25 0.00 0.00 0.73 0.95 1.8 18 16 308 7.8 9.1 0.86 26 0.00 0.01 0.75 0 92 89 7.6 8.5 1.3 0.90 14 16 6.9 27 0.00 0.02 0.76 0.92 1.0 13 18 37 7.3 1.4 0.88 1.6 1.5 28 0.00 0.28 0.80 0.97 1.1 13 16 43 6.8 6.2 0.91 0.74 29 0.00 0.05 1.0 0.90 12 14 40 5.9 6.1 ---30 0.00 0.05 0.69 1.0 143 32 22 5.7 9.8 1.5 0.91 ---31 0.00 0.75 1.1 555 ---15 12 1.4 ---TOTAL. 18 66 0 96 61 83 26 91 115 86 1938 5 4596 1033.0 3124 3 555 4 84 6 32 55 0.032 62.53 731 MEAN 0.602 1.995 0.868 4.138 153.2 33.32 104.1 17.92 2.729 1.085 308 8.5 0.28 30 1.1 1170 1170 91 MAX 36 7.5 2.2 MTN 0.00 0.00 0.01 0.67 0 91 1 1 14 6.2 5 7 5 4 1 3 0.84 9120 AC-FT 37 1.9 123 53 230 3850 2050 6200 1100 168 65 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002z, BY WATER YEAR (WY) 39.25 MEAN 39.81 28.76 51.57 91.74 129.8 18.75 10.41 26.57 181 1973 MAX 1829 298 743 257 401 570 1175 1284 1250 230 491 1992 1965 1992 2001 1973 (WY) 1982 1977 1957 1990 1989 1962 MIN 0.000 0.000 0.000 0.000 (WY) 1959 1956 1956 1956 2000 1956 1956 1980 1956 1964 1957 1956

# 08043950 Big Sandy Creek near Chico, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1956 - 2002z
ANNUAL TOTAL ANNUAL MEAN	31014.66 84.97	11588.57 31.75	70.85
HIGHEST ANNUAL MEAN	04.57	31.73	317 1982 0.40 2000
HIGHEST DAILY MEAN LOWEST DAILY MEAN	1860 Feb 16 0.00 Oct 1	1170 Apr 8 0.00 Oct 1	23800 Oct 13 1981 0.00 Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW	0.00 Oct 24	0.00 Oct 24 1560 Jun 5	0.00 Oct 1 1935 0.00 Oct 5 1955 945000 Oct 13 1981
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)	61520	12.12 Jun 5 22990	g14.78 Oct 13 1981 51330
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS	256 2.2	40 1.5	92 6.0
90 PERCENT EXCEEDS	0.04	0.04	0.00

- Estimated Period of regulated streamflow. At site and datum then in use.



#### 08044500 West Fork Trinity River near Boyd, TX

LOCATION.--Lat 33°05'07", long 97°33'30", Wise County, Hydrologic Unit 12030101, on right bank on downstream side of highway embankment, 10 ft right of right abutment of bridge on Farm Road 730, 0.6 mi northeast of Boyd, 3.5 mi downstream from Boggy Creek and at mile 602.

DRAINAGE AREA. -- 1,725 mi<sup>2</sup>.

PERIOD OF RECORD .-- Jan. 1947 to current year.

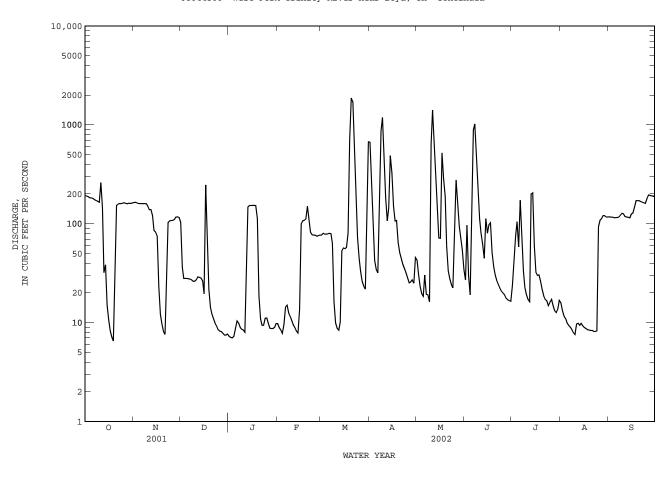
GAGE.--Water-stage recorder. Datum of gage is 660.57 ft above NGVD of 1929. Prior to Dec. 14, 1954, water-stage recorder at site 2.2 mi downstream at datum 5.48 ft lower. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Jan. 1947, at least 10% of contributing drainage area has been regulated. In addition, flow from 91.2 mi<sup>2</sup> above station is affected at times by discharge from the flood-detention pools of 36 floodwater-retarding structures in the Big Sandy and Salt Creek drainage basins. No known diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, about 25 ft in May 1908, present site and datum, from information by local residents, who also reported a flood of about the same gage height between 1870-80. A flood in Apr. 1942 reached a stage of 20.6 ft, present site and datum, from information by Texas Department of Transportation.

		DISCHARGE	FROM DCP,	CUBIC FEET		COND, WAT		CTOBER 200	1 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	193 190 187 183 182	164 165 162 160 160	103 36 28 28 28	7.2 7.1 7.0 7.2 8.7	9.8 8.9 8.4 7.8 9.5	77 80 79 78 79	667 182 77 43 35	43 31 23 20 19	27 96 30 19 258	24 41 75 105 58	16 13 12 11 9.9	117 117 117 115 115
6 7 8 9 10	180 175 171 169 165	160 160 160 160 151	28 28 27 26 26	10 9.9 9.0 8.6 8.4	14 15 13 12 11	80 79 64 16 9.9	32 165 869 1190 543	30 19 19 16 641	887 1020 551 263 112	172 84 33 23 19	9.4 9.0 8.5 7.9 7.5	116 116 122 127 126
11 12 13 14 15	261 142 32 38 15	139 139 120 86 82	27 29 29 28 26	8.0 46 148 153 153	9.4 8.9 8.2 7.9	8.7 8.4 10 53 57	181 107 144 488 327	1410 650 244 118 72	80 62 45 113 80	17 16 199 206 60	9.7 9.8 9.4 9.8 9.3	118 117 116 115 125
16 17 18 19 20	11 8.2 7.2 6.5 40	12	20 246 64 22 14	153 153 153 113 19	99 107 108 112 150	56 58 80 713 1870	150 106 108 64 51	71 520 285 190 60	97 102 51 37 30	32 30 30 26 22	8.9 8.7 8.5 8.4 8.3	128 146 171 171 171
21 22 23 24 25	153 158 160 160 162	7.6 21 103 107 108	9.2	11 9.4 9.4 11	112 83 77 77 76	1720 674 171 73 45	44 39 35 32 28	33 28 24 22 87	27 24 22 21 20	19 17 17 15 16	8.3 8.2 8.1 8.2 93	167 165 162 160 179
26 27 28 29 30 31	163 160 160 161 161 162	108 110 117 117 115	8.2 8.1 7.8 7.5 7.5 7.6	9.9 8.8 8.7 8.7 8.9 9.8	75 76 77  	33 26 23 22 86 674	25 26 27 25 46	276 159 94 73 54 34	19 18 17 17 16	17 15 13 13 14 17	108 113 121 121 117 117	195 193 191 190 190
TOTAL MEAN MAX MIN AC-FT	4115.9 132.8 261 6.5 8160	107.0 165 7.6	960.3 30.98 246 7.5 1900		1386.8 49.53 150 7.8 2750	7103.0 229.1 1870 8.4 14090	5856 195.2 1190 25 11620	5365 173.1 1410 16 10640	4161 138.7 1020 16 8250	1445 46.61 206 13 2870	1017.8 32.83 121 7.5 2020	4358 145.3 195 115 8640
STATIS	TICS OF	MONTHLY ME	AN DATA F	OR WATER Y	EARS 194	7 - 2002	, BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	295.7 4063 1982 2.96 1957	1248 1982	174.0 3073 1992 2.21 1953	105.6 929 1992 0.75 1956	153.6 2003 1997 0.10 1953	234.2 1728 1998 0.26 1955	271.7 4339 1990 0.59 1955	687.1 5908 1990 25.2 1959	452.0 5439 1989 2.76 1953	197.5 1330 1950 7.11 1979	218.9 1157 1950 0.025 1980	177.9 1643 1962 0.23 1956
SUMMAR	Y STATI	STICS	FOR	2001 CALENI	DAR YEAR	. 1	FOR 2002 W	ATER YEAR		WATER YEAR	RS 1947 -	2002
ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL MAXIMU ANNUAL 10 PER 50 PER	T ANNUAL T DAILY DAILY SEVEN- M PEAK M PEAK	MEAN MEAN MEAN DAY MINIMUM FLOW STAGE (AC-FT) CEEDS CEEDS		94424.9 258.7 4480 5.0 5.3 187300 567 158 12	Feb 17 Sep 15 Sep 11		40267.1 110.3 1870 6.5 7.3 2410 17.2 79870 185 51 8.7	Mar 20 Oct 19 Dec 29 Mar 20 7 Mar 20		263.6 1094 58.6 38800 0.0 0.0 60400 25.8 191000 477 66 4.4	Oct 14 0 Aug 6 0 Sep 25 Oct 14	1948 1952 1981

# 08044500 West Fork Trinity River near Boyd, TX--Continued



#### 08044800 Walnut Creek at Reno, TX

LOCATION.--Lat 32°56′44", long 97°34′58", Parker County, Hydrologic Unit 12030101, on left bank at abandoned bridge abutment, 100 ft upstream from bridge on FM 1542, 3,500 ft upstream from Cottonwood Branch and 2.4 mi west of intersection of FM 1542 and FM 730 in Center Point.

DRAINAGE AREA.--75.6 mi<sup>2</sup>.

PERIOD OF RECORD.--Apr. 1992 to Sept. 1995 (annual maximum), Oct. 1995 to current year.

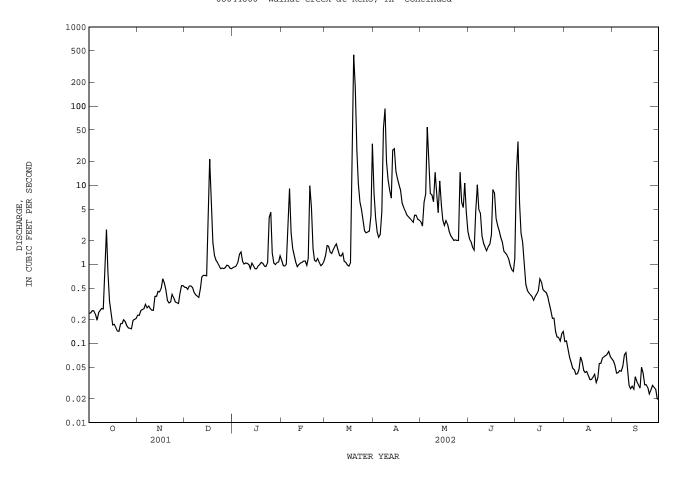
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 681.11 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges and those above  $3,000~{\rm ft}^3$ , which are poor. No known regulation or diversions. No flow at times.

	DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.24 0.24 0.26 0.26 0.23	0.23 0.23 0.26 0.27 0.27	0.51 0.51 0.48 0.53 0.53	0.91 0.93 0.95 1.1 1.3	1.1 0.96 0.95 1.0 3.1	1.3 1.7 1.7 1.4	8.0 3.9 2.6 2.2 2.4	3.4 3.0 6.1 7.8 54	2.1 1.9 1.6 1.5 4.7	14 35 5.7 2.5 1.9	0.11 0.11 0.08 0.07 0.06	0.06 0.05 0.04 0.04 0.05
6 7 8 9 10		0.31 0.28 0.30 0.28 0.26									0.05 0.05 0.04 0.04 0.05	0.04 0.05 0.07 0.08 0.05
11 12 13 14 15	0.75 2.7 0.80 0.34 0.24	0.26 0.39 0.39 0.45 0.45	0.49 0.69 0.73 0.72 0.71	0.99 0.88 1.0 0.96 0.88					1.7 1.5 1.7 1.8 2.4	0.35	0.07 0.06 0.05 0.04 0.04	0.03 0.03 0.03 0.03 0.04
16 17 18 19 20	0.17 0.17 0.16 0.14 0.14	0.49 0.66 0.57 0.47 0.35	5.0 21 5.3 1.9	0.88 0.95 0.99 1.1 1.0	1.1 0.97 1.2 9.8 5.2	0.94 1.0 15 443 171	e12 e10 e8.6 e5.9 e5.2	3.1 3.6 3.2 2.6 2.3	8.8 8.0 3.8 3.1 2.6	0.66 0.59 0.48 0.46 0.44	0.04 0.03 0.04 0.04 0.04	0.03 0.03 0.03 0.05 0.04
								2.2 2.0 2.0 2.0 2.0			0.03 0.04 0.06 0.06 0.07	0.03 0.03 0.03 0.02 0.03
26 27 28 29 30 31	0.16 0.15 0.19 0.20 0.21	0.33 0.32 0.42 0.54 0.54	0.88 0.91 0.97 0.95 0.89 0.88	1.4 1.0 0.99 1.0 1.1	0.96 0.99 1.1 	2.7 2.5 2.6 2.6 4.2 33	3.4 4.2 4.2 3.7 3.6	15 6.0 5.2 11 4.5 2.6	1.2 0.97 0.85 0.81 1.2	0.14 0.12 0.12 0.11 0.13 0.14	0.07 0.07 0.07 0.08 0.07 0.06	0.03 0.03 0.03 0.02 0.02
TOTAL MEAN MAX MIN AC-FT	10.08 0.325 2.7 0.14 20	11.10 0.370 0.66 0.23 22	52.98 1.709 21 0.38 105	38.40 1.239 4.5 0.88 76	55.15 1.970 9.8 0.93 109	752.32 24.27 443 0.94 1490	369.3 12.31 93 2.2 733	231.4 7.465 54 2.0 459	84.03 2.801 10 0.81 167	68.76 2.218 35 0.11 136		1.14 0.038 0.08 0.02 2.3
								R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	3.042 7.64 1999 0.003 2000	19.60 120 1997 0.25 2000	7.466 17.9 1998 0.61 2000	6.990 17.0 1998 0.27 2000	46.48 178 1997 0.54 2000	41.48 104 1998 6.76 2000	20.22 82.1 1997 5.36 2000	22.84 92.2 1997 1.43 1996	15.58 53.0 2000 0.84 1999	3.793 19.1 1997 0.13 2000	3.905 14.6 1997 0.004 2000	1.408 4.52 1996 0.000 2000
SUMMAR	Y STATIS	TICS	FOR	2001 CALE	NDAR YEAR	. :	FOR 2002 T	WATER YEAR		WATER YEAR	RS 1996 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUI MAXIMUI ANNUAL 10 PERO 50 PERO	MEAN I ANNUAL ANNUAL I DAILY DAILY M SEVEN-D M PEAK F	MEAN MEAN MEAN MEAN LOW TAGE (AC-FT) MEDS			Feb 16 4 Oct 19 5 Oct 16		1676. 4.! 443 0.0 3570 11.: 3330 7.: 0.9	Mar 19 02 Sep 24 03 Sep 24 Mar 19 16 Mar 19		15.86 53.7 3.96 2350 0.00 0.00 0.11490 d21.21 11490 21 1.9	Mar 16 O Sep 4 O Sep 4 Feb 23 I Oct 19	1999 1999 2001

After channel rectification, which occurred Nov. 1995 to Mar. 1997, peak gage-height, 17.30 ft. d Prior to channel rectification, which occurred Nov. 1995 to Mar. 1997, peak discharge, 7,760 ft<sup>3</sup>.

08044800 Walnut Creek at Reno, TX--Continued



#### 08045000 Eagle Mountain Reservoir above Fort Worth, TX

LOCATION.--Lat 32°52′39", long 97°28′29", Tarrant County, Hydrologic Unit 12030101, at left end of main section of Eagle Mountain Dam on West Fork Trinity River, 11.8 mi northwest of Fort Worth and at mile 583.3.

DRAINAGE AREA. -- 1,970 mi<sup>2</sup>.

PERIOD OF RECORD. -- Feb. 1934 to current year. Prior to Oct. 1950 end of month values only.

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 16, 1988, nonrecording gages at several sites within 1.0 mi of present site at present datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by two sections of rolled earthfill and a concrete spillway separated by high natural ground. Total length of the dam including spillway is 4,800 ft. The dam was completed Oct. 24, 1932, and storage began Feb. 24, 1934. The spillway is a 1,300-foot-wide cut through natural ground located between the two sections of earthfill that make up the dam. The original service spillway, located in the section to the right of the main dam, contains a concrete spillway with four 25-foot bays, three are equipped with vertical lift gates and the fourth is left open. In 1971, a side-channel spillway was constructed. The newest spillway is located 300 ft to the left of the original service spillway and has six 11.25 x 22-foot-wide roller lift gates. The main section of the dam contains the outlet works that consist of two concrete conduits with two 48-inch diameter valves in each conduit. The dam is owned by the Tarrant Regional Water District. The reservoir is used for flood control and for part of the municipal water supply for the city of Fort Worth. Flow from 91.2 mi² above station is affected at times by discharge from the flood-detention pools of 36 floodwater-retarding structures with a total combined detention capacity of 24,450 acre-ft in the Big Sandy and Salt Creek drainage basins. Conservation pool storage is 190,300 acre-ft. Data regarding the dam are given in the following table:

Top of dam.  Crest of spillway.  Top of gates (new side-channel spillway).  Crest of (old service) spillway.  Crest of spillway (new side-channel spillway).  Lowest gated outlet (invert).	676.0 659.0 649.1 637.0
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COOPERATION.--Capacity table, No. 4-C, furnished by Tarrant Regional Water District, was put into use Oct. 1, 1988.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 333,500 acre-ft, Apr. 26, 1942, elevation, 659.9 ft; minimum contents observed since first appreciable storage in 1935, 57,690 acre-ft, Nov. 19, 20, 1956, elevation, 629.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 181,800 acre-ft, May 13, elevation, 649.47 ft; minimum contents, 141,200 acre-ft, Mar. 14, 18, elevation, 644.59 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

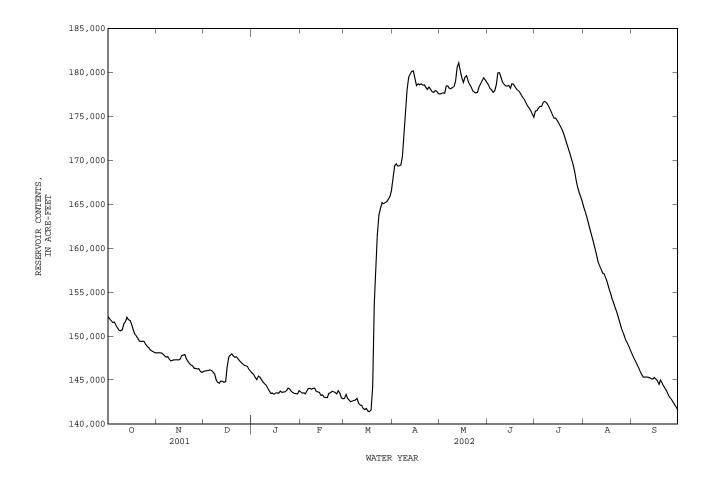
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152200	148100	146000	145800	143600	142900	167800	177500	178600	175600	164600	147900
2	151900	148100	146000	145600	143500	143300	169300	177600	178200	175600	164100	147500
3	151700	148100	146000	145300	143500	142900	169600	177700	178000	175900	163400	147100
4	151500	148100	146100	145000	143400	142700	169400	177600	177700	176100	162700	146700
5	151600	147900	146100	145400	143700	142500	169400	178400	177900	176100	162100	146400
6	151200	147800	146100	145300	144000	142600	169400	178500	178600	176600	161400	146000
7	150900	147600	145900	145000	144000	142700	170500	178200	179900	176700	160700	145600
8	150600	147600	145700	144800	143900	142700	173400	178100	180000	176600	160000	145300
9	150600	147400	145000	144600	144000	142900	175700	178300	179400	176300	159200	145300
10	150700	147200	144700	144400	144100	142400	178000	178400	178900	176000	158500	145300
11	151400	147200	144600	144100	143700	142100	179400	179000	178600	175600	158000	145300
12	151600	147300	144900	143800	143600	142100	179800	180600	178500	175100	157600	145200
13	152100	147300	144900	143500	143600	141700	180100	181100	178400	174800	157100	145100
14	151800	147300	144700	143500	143200	141600	180200	180100	178500	174800	157100	145100
15	151800	147300	144800	143400	143300	141700	179300	179400	178200	174500	156600	145300
16	151300	147400	146400	143500	143000	141400	178500	178800	178700	174200	156000	145100
17	150700	147800	147600	143500	143000	141400	178700	179400	178600	173900	155400	144900
18	150200	147800	147800	143500	143000	141600	178600	179600	178400	173500	154800	e144500
19	150000	147900	148000	143700	143500	144200	178700	179000	178100	173000	154200	e145000
20	149700	147400	147700	143600	143500	153700	178600	178600	177900	172500	153800	e144700
21	149400	147100	147600	143600	143700	157600	178600	178300	177700	171900	153200	e144300
22	149400	146900	147600	143700	143700	161500	178300	177900	177400	171400	152700	e144000
23	149400	146700	147400	143800	143600	163800	178100	177700	177100	170800	152100	143700
24	149400	146600	147200	144100	143400	164500	178300	177700	176900	170200	151500	143300
25	149000	146300	147000	143900	143800	165200	178100	177700	176600	169500	150900	143000
26 27 28 29 30 31	148800 148700 148400 148300 148200 148100	146300 146200 146300 145900 145800	146800 146700 146600 146500 146200 146000	143700 143600 143500 143400 143400 143800	143500 143000 142900 	165000 165200 165300 165500 165900 166500	177800 177700 177900 177800 177600	178300 178700 179100 179400 179100 178900	176200 175900 175700 175300 174900	168800 167800 166900 166300 165800 165300	150400 149900 149500 149100 148700 148300	142800 142500 142200 141900 141600

#### 08045000 Eagle Mountain Reservoir above Fort Worth, TX--Continued

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	150300	147200	146300	144100	143500	150500	176200	178700	177800	172800	155900	144800
MAX	152200	148100	148000	145800	144100	166500	180200	181100	180000	176700	164600	147900
MIN	148100	145800	144600	143400	142900	141400	167800	177500	174900	165300	148300	141600
(+)	645.49	645.20	645.22	644.94	644.82	647.74	649.01	649.15	648.71	647.60	645.52	644.65
(@)	-4100	-2300	+200	-2200	-900	+23600	+11100	+1300	-4000	-9600	-17000	-6700

CAL YR 2001 WTR YR 2002 MAX 188700 MIN 113400 (@) MAX 181100 MIN 141400 (@) +32700 -10600

- (+) Elevation, in feet, at end of month.(@) Change in contents, in acre-feet.



e Estimated

#### 08045400 Lake Worth above Fort Worth, TX

LOCATION.--Lat 32°47'21", long 97°24'58", Tarrant County, Hydrologic Unit 12030102, on top of Lake Worth Dam on West Fork Trinity River, 240 ft to right of right end of uncontrolled concrete spillway, 2.9 mi upstream from Farmer's Branch, 3.3 mi upstream from bridge on State Highway 183 crossing West Fork Trinity River, 5.3 mi northwest of Tarrant County Courthouse in Fort Worth and at river mile 572.0.

DRAINAGE AREA. -- 2,064 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1981 to current year.
Water-quality records.--Chemical data: Jan. 1970 to Sept. 1984.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfill dam 3,200 ft long, with an uncontrolled concrete spillway 700 ft long near the center of the dam. Deliberate impoundment began in June 1914 and the dam was completed in Oct. 1914. There is a 48-inch diameter pipe controlled by a 36-inch valve, which may be used to make small releases through the dam. The dam is owned by the city of Fort Worth. Conservation pool storage is 38,130 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	606.3
Crest of concrete spillway	594.0
Lowest gated outlet (invert)	584.25

COOPERATION. -- Capacity Table 1-C was provided by U.S. Army Corps of Engineers, and put into effect Feb. 1968.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,040 acre-ft, May 3, 1990, elevation, 598.70 ft; minimum contents, 24,730 acre-ft, Sept. 9-10, 1985, elevation, 589.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,550 acre-ft, Apr. 16, elevation, 594.41 ft; minimum contents, 32,050 acre-ft, Sept. 18, elevation, 592.48 ft.

RESERVOIR	STORAGE	FROM	EDL/DCP,	in	(ACRE-FEET)	WATER	YEAR	OCTOBER	2001	TO	SEPTEMBER	2002
					DATLY MEAN	VALUES						

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33780	33590	33900	e33790	34340	33520	36580	36250	36290	34130	33590	33500
2	33720	33640	33810	e33740	34180	33910	36530	36240	36100	34090	33500	33480
3	33680	33690	33780	33670	34100	33700	36390	36240	35920	34140	33540	33410
4	33680	33710	33730	33580	34020	33620	36190	36190	35730	34130	33480	33380
5	33810	33740	33700	33680	34170	33550	36080	37100	35690	34110	33470	33350
6	33810	33730	33770	33670	34340	33640	36100	37410	35630	e34170	33440	33380
7	33740	33690	33850	33580	34230	33670	36600	37120	35570	e34060	33440	33400
8	33740	33790	33910	33630	34090	33750	37370	36950	36580	e34130	33420	33620
9	33770	33840	33840	33710	34120	33890	37150	36900	37690	e33910	33440	33790
10	33900	33860	33850	33880	34100	33720	36950	36780	37750	33850	33620	33690
11	34440	33970	33950	33950	33850	33730	36840	36930	37200	33770	34280	33420
12	34360	34110	34070	34040	33740	33850	36880	37400	36850	33690	34200	33120
13	34420	34130	34020	34050	33760	33740	37020	38000	36680	33630	34240	32660
14	34170	34100	33870	e34080	33730	33760	37570	37970	36580	33530	34020	32420
15	34030	34130	33770	e33710	33780	33860	38130	37610	36290	33440	33720	32490
16	33960	34060	34350	33830	33740	33770	38430	37460	36280	33460	33600	32250
17	33900	34230	34690	33910	33680	33820	38100	37740	36120	33480	33970	32260
18	33860	34180	34560	33970	33660	33950	37600	37800	35910	33510	34030	32100
19	33920	34170	34500	34000	33790	34960	37310	e37770	35690	33530	33990	32370
20	33910	33900	34310	33760	33720	38250	37160	37550	35500	33520	33830	32430
21	33870	33750	e34250	33670	33740	37670	37130	37190	35390	33510	33660	32400
22	33880	33720	e34130	33560	33700	37150	36970	36920	35170	33490	33480	32520
23	33940	33770	e34130	33560	33630	36880	36800	36740	34970	33470	33290	32380
24	33960	33840	e34130	33670	33520	36770	36760	36640	34770	33500	33370	32300
25	33860	33680	e34130	33610	33690	36800	36600	36490	34550	33440	33330	32260
26 27 28 29 30 31	33770 33730 33660 33610 33530 33510	33730 33730 33990 33990 33950	e34130 e34130 e34060 e34000 e33950 e33860	33600 33650 33710 33790 33880 34480	33670 33480 33440 	36580 36450 36370 36350 36640 36720	36550 36490 36510 36430 36320	36340 36170 36170 36290 36330 36400	34340 34160 33980 33850 33860	33300 33300 33290 33430 33650 33730	33370 33150 33190 33300 33450 33460	32430 32300 32360 32320 32320
MAX	34440	34230	34690	34480	34340	38250	38430	38000	37750	34170	34280	33790
MIN	33510	33590	33700	33560	33440	33520	36080	36170	33850	33290	33150	32100
(+)	592.94	593.08	e 93.05	593.23	592.92	593.90	593.78	593.80	593.05	593.01	592.93	592.57
(@)	-310	+440	-90	+620	-1040	+3280	-400	+80	-2540	-130	-270	-1140

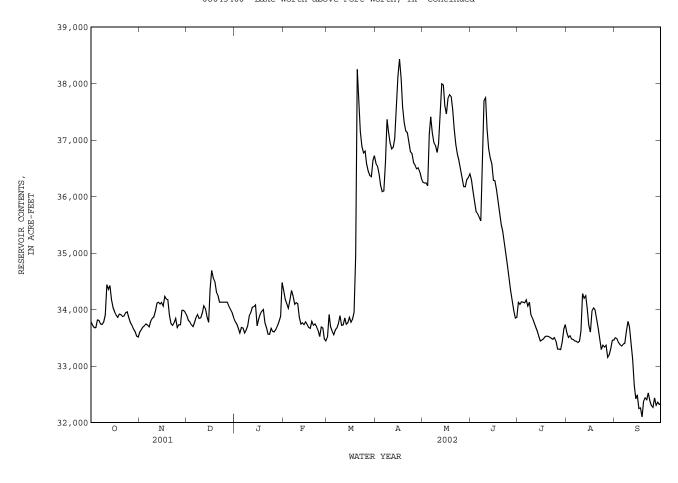
CAL YR 2001 MAX 42200 MIN 29410 (@) +3350 WTR YR 2002 MAX 38430 MIN 32100 (@) -1500

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

# 08045400 Lake Worth above Fort Worth, TX--Continued



#### 08045525 Farmers Branch at Westworth Village, Fort Worth, TX

LOCATION.--Lat  $32^{\circ}45'52"$ , long  $97^{\circ}25'56"$ , Tarrant County, Hydrologic Unit 12030102, on left bank 0.6 mi northwest of US Hwy 183 on Roaring Springs Road, along north side of Cottonwood tree grove, 1.62 mi upstream of confluence with West Fork Trinity

DRAINAGE AREA. -- 6.09 mi<sup>2</sup>.

MIN

PERIOD OF RECORD. -- Jul. 1998 to current year (gage height).

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above NGVD of 1929. Satellite telemeter at station.

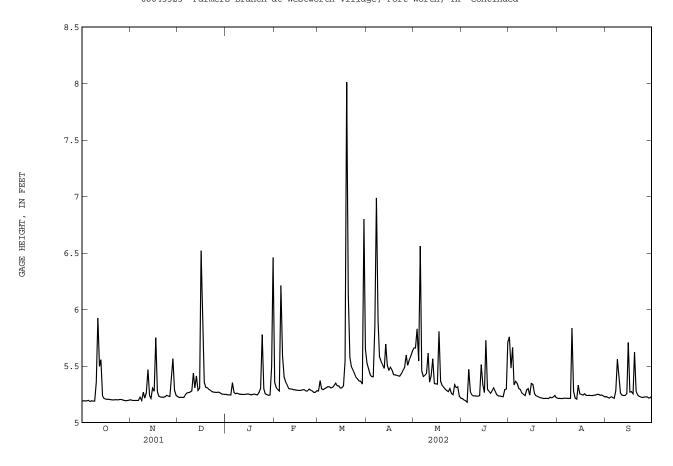
REMARKS. -- Records good. No known regulation or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.70, Jun. 4, 2000, at 0015 hours; minimum gage height, 4.36, Jun. 20, 2000, at 0515 hours.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.47 ft, Mar. 19; minimum gage height, 5.16 ft, June 3, 4, 5.

GAGE HEIGHT FROM DCP, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR JUN JUL AUG SEP JAN APR MAY 5.19 5.20 5.23 5.25 5.36 5.28 5.52 5.66 5.21 5.76 5.21 5.23 2 5.19 5.19 5.22 5.37 5.47 5.66 5.20 5.21 5.22 5.24 5.31 5.48 5.19 5.19 5.22 5.24 5.29 5.30 5.42 5.83 5.19 5.66 5.21 5.22 5.21 5.19 5.20 5.22 5.24 5.28 5 29 5.41 5.54 5.18 5.33 5 23 5 5.20 5.20 5.22 5.35 6.21 5.30 5.40 6.56 5.47 5.36 5.22 6 7 5 19 5 19 5 25 5 26 5 59 5 31 5 85 5 46 5 27 5 35 5 22 5 21 5.19 5.22 5.25 5.30 5.21 5.28 5.26 5.25 5.32 5.41 5.40 6.99 5.26 5.32 5.91 5.42 5.24 5.29 8 5.19 5.20 5.26 5.36 5.21 5.56 5.19 5.27 5.27 5 25 5.33 5.30 5.58 5.43 5 24 5.26 5 21 5 40 10 5.36 5.21 5.25 5.25 5.28 5.30 5.31 5.54 5.61 5.23 5.84 5.26 11 5 92 5 26 5 44 5 25 5 30 5 33 5 51 5 36 5 23 5 24 5 28 5 24 12 5.50 5.47 5.31 5.25 5.48 5.24 5.29 5.22 5.24 5.30 5.35 5.41 5.55 5.41 5.29 5.33 5.69 5.51 5.30 5.24 14 5.24 5 21 5 28 5 25 5 29 5 32 5.50 5 34 5 33 5 24 5 33 5 26 15 5.21 5.30 5.25 5.29 5.46 5.35 5.25 5.30 5.30 5.34 5.26 5.71 16 5 21 5 28 6 52 5 25 5 28 5 31 5 49 5 34 5 73 5 34 5 25 5 27 17 5.20 5.75 5.29 5.27 5.78 5.24 5.28 5.32 5.46 5.81 5.26 5.24 5.26 18 5.20 5.27 5.35 5.25 5.28 5.54 5.42 5.36 5.27 5.24 5.25 19 5.20 5 23 5 31 5 25 5 29 8 01 5.42 5 33 5 26 5 23 5 24 5 62 5.29 5.31 5.24 20 5.31 6.14 5.28 21 5 20 5 22 5 29 5 24 5 28 5 58 5 41 5 29 5 31 5 22 5 24 5 24 5.20 22 5.22 5.26 5.28 5.50 5.41 5.28 5.28 5.22 5.24 5.23 5.28 23 5.20 5.23 5.27 5.30 5.30 5.47 5.43 5.27 5.24 5.21 5.24 5.22 24 5.20 5.24 5.27 5.78 5.29 5.43 5.46 5.30 5.23 5.21 5.24 5.22 25 5.20 5.23 5.28 26 5.23 5.27 5.27 5.38 5.25 5.23 5.25 5.23 5.20 5.25 5.60 5.21 27 5.20 5.40 5.27 5.25 5.27 5.37 5.51 5.34 5.23 5.22 5.25 5.23 28 5.20 5.56 5.26 5.24 5.28 5.36 5.55 5.31 5.29 5.22 5.24 5.22 5.29 5.25 5.30 5.22 29 5.19 5.24 5.34 5.59 5.32 5.22 5.24 30 5.20 5.24 5.25 5.49 \_\_\_ 6.80 5.23 5.71 5.24 5.23 5.23 31 5.20 5.25 6.46 ---5.65 5.21 5.22 5.23 MEAN 5.25 5.27 5.33 5.32 5.34 5.53 5.57 5.45 5.30 5.30 5.25 5.28 6.52 5.22 6.21 5.27 6.56 5.21 5.73 5.18 5.71 5.21 MAX 5.92 5.75 6.46 8.01 6.99 5.76 5.84 5.21 5.19 5.19 5.24 5.28 5.40 5.21

Farmers Branch at Westworth Village, Fort Worth, TX--Continued



#### 08045800 Lake Weatherford near Weatherford, TX

LOCATION.--Lat 32°46'21", long 97°40'28", Parker County, Hydrologic Unit 12030102, in pumphouse 168 ft upstream from right end of dam on Clear Fork Trinity River, 2.4 mi downstream from Hays Branch, 3.9 mi upstream from Squaw Creek, and 7.3 mi east of Weatherford

DRAINAGE AREA. -- 109 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1976 to May 1980, Aug. 1998 to current year. Water-quality records.--Chemical data: Oct. 1978 to Sept. 1979.

GAGE. -- Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfilled dam 4,055 ft long. The dam was completed and deliberate impoundment began in Mar. 1957. The service spillway is a semi-circular drip inlet with a crest length of 162 ft located 550 ft to the right of the pumphouse. The drop inlet discharges into a 9 x 9 ft concrete conduit that extends 425 ft under the dam. The emergency spillway is an uncontrolled excavated split-level cut channel located at the right end of the dam. The low-flow outlet works consist of an 18 in diameter concrete pipe with a valve control assembly. At end of year, flow from 43.9 mi<sup>2</sup> above this station was partly affected at times by discharge from the flood-detention pools of 22 floodwater retarding structures with a combined detention capacity of 11,000 acre-ft. Records furnished by the city of Weatherford show that 1,030 acre-ft was diverted from the lake for municipal use during the period Oct. to Apr. and 869 acre-ft of sewage effluent was returned to a tributary downstream from station. Conservation pool storage is 18,650 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	914.0
Crest of Spillway	903.0
Invert of drop inlet (spillway)	896.0
Invert of lowest gated outlet pipe	857.0

COOPERATION. -- The capacity table was furnished by the Texas Water Development Board and designated Table 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 23,560 acre-ft, Mar. 27, 1977, elevation, 899.65 ft, from floodmark; minimum contents, 12,880 acre-ft, Jan. 9, 10, 1979, elevation, 889.99 ft.

EXTREMES FOR CURRENT YEAR. -- Maximum contents, 18,200 acre-ft, May 12, elevation, 895.60 ft; minimum contents, 13,600 acre-ft, Mar. 16, elevation, 891.21 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

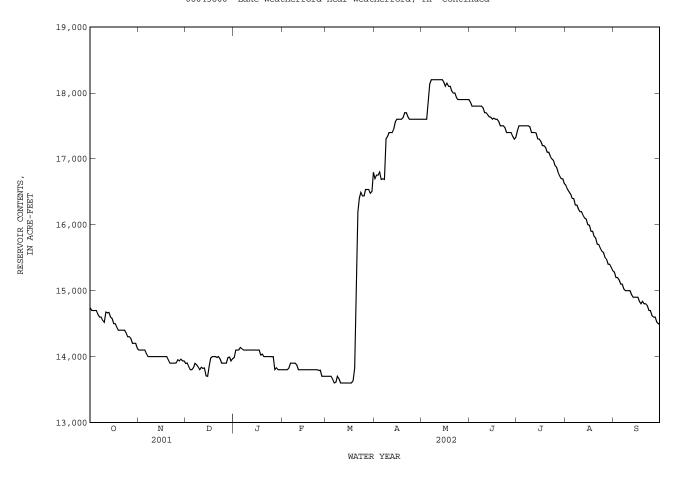
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14700	14100	e13900	e14000	13800	13700	e16700	17600	17900	17400	16600	15300
2	14700	14100	e13900	e14100	13800	13700	e16800	17600	17800	17500	16500	15200
3	14700	14100	e13800	14100	13800	13700	e16800	17600	17800	17500	16500	15200
4	14700	14100	e13800	14100	13800	13700	e16800	17600	17800	17500	16500	15200
5	14700	14100	e13800	14100	13800	13700	e16700	17900	17800	17500	16400	15100
6	14600	14000	e13800	14100	13900	13600	e16700	18100	17800	17500	16400	15100
7	14600	14000	e13900	14100	13900	13600	e16700	18200	17800	17500	16300	15000
8	14600	14000	e13900	14100	13900	13700	e17300	18200	17800	17500	16300	15000
9	14500	14000	e13800	14100	13900	13700	17300	18200	17800	17500	16200	15000
10	14500	14000	e13800	14100	13900	13600	17400	18200	17700	17400	16200	15000
11	14700	14000	e13800	14100	13800	13600	17400	18200	17700	17400	16200	15000
12	14700	14000	e13800	14100	13800	13600	17400	18200	17700	17400	16100	14900
13	14700	14000	e13800	14100	13800	13600	17500	18200	17600	17400	16100	14900
14	14600	14000	e13700	14100	13800	13600	17600	18200	17600	17300	16100	14900
15	14600	14000	13700	14100	13800	13600	17600	18200	17600	17300	16000	14900
16	14500	14000	13800	14100	13800	13600	17600	18100	17600	17300	16000	14900
17	14500	14000	14000	14100	13800	13600	17600	18100	17600	17200	15900	14800
18	14400	14000	14000	14000	13800	13600	17600	18100	17600	17200	15900	14800
19	14400	14000	14000	14000	13800	13800	17600	18100	17600	17200	15800	14800
20	14400	13900	14000	14000	13800	e15200	17700	18000	17500	17100	15800	14800
21	14400	13900	14000	14000	13800	e16200	17700	18000	17500	17100	15700	14800
22	14400	13900	14000	14000	13800	e16400	17600	18000	17500	17000	15700	14800
23	14400	13900	14000	e14000	13800	e16500	17600	17900	17500	17000	15600	14700
24	14400	13900	13900	e14000	13800	e16400	17600	17900	17400	17000	15600	14700
25	14300	13900	13900	e14000	13800	e16400	17600	17900	17400	16900	15600	14600
26 27 28 29 30 31	14300 14300 14200 14200 14200 14100	e14000 e13900 e14000 e13900 e13900	13900 e13900 e14000 e14000 e13900 e14000	e14000 e13800 e13800 13800 13800 13800	13700 13700 13700 	e16500 e16500 e16500 e16500 e16500 e16800	17600 17600 17600 17600 17600	17900 17900 17900 17900 17900 17900	17400 17400 17300 17300 17300	16900 16800 16700 16700 16700 16600	15500 15500 15400 15400 15400 15300	14600 14600 14500 14500 14500
MEAN	14500	14000	13900	14000	13800	14700	17400	18000	17600	17200	16000	14900
MAX	14700	14100	14000	14100	13900	16800	17700	18200	17900	17500	16600	15300
MIN	14100	13900	13700	13800	13700	13600	16700	17600	17300	16600	15300	14500
(+)	891.79	891.57	891.59	891.45	891.32	894.31	895.04	895.28	894.78	894.17	892.94	892.13
(@)	-500	-200	+100	-200	-100	+3100	+800	+300	-600	-700	-1300	-800

CAL YR 2001 MAX 20000 MIN 13700 (@) -700 WTR YR 2002 MAX 18200 MIN 13600 (@) -100

- (+) Elevation, in feet, at end of month.
- (@) Change in contents, in acre-feet.

e Estimated

08045800 Lake Weatherford near Weatherford, TX--Continued



#### 08045850 Clear Fork Trinity River near Weatherford, TX

LOCATION.--Lat 32°44′25", long 97°39′06", Parker County, Hydrologic Unit 12030102, near left end of bridge on weigh station exit road associated with Interstate Highway 20, 150 ft downstream from Squaw Creek, 2.8 mi downstream from Lake Weatherford Dam on the Clear Fork Trinity River, 3.8 mi upstream from South Fork Trinity River and 8.5 mi east of county courthouse in Weatherford.

DRAINAGE AREA. -- 121 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1980 to Sept. 1985, Oct. 1985 to Sept. 1998 (peaks above base discharge), Oct. 1998 to current year. Water-quality records.--Chemical data: Oct. 1980 to Sept. 1982. Biochemical data: Oct. 1980 to Sept. 1982.

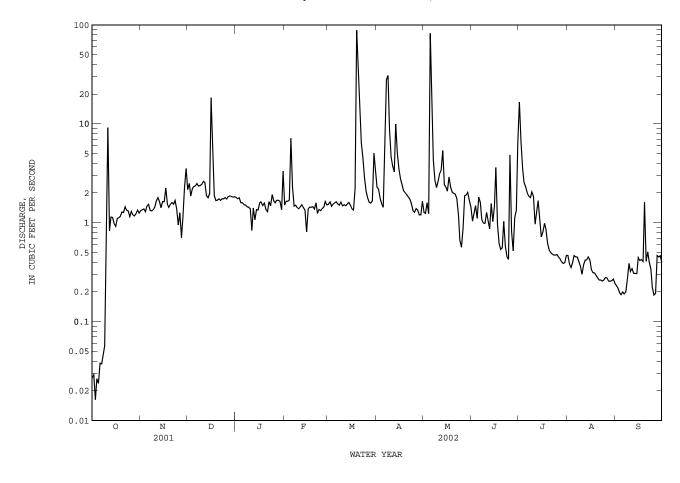
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 810.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in 1980 at least 10% the contributing drainage area has been regulated. No known diversions. No flow at times.

		DISCHA	RGE, CUBI	C FEET PE		WATER YE MEAN VA		R 2001 TO	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.03 0.03 0.02 0.03 0.02	1.3 1.4 1.4 1.3	2.2 2.5 1.9 2.2 2.3	1.8 1.8 1.6 1.6	1.5 1.7 1.6 1.7	1.5 1.6 1.5 1.5	2.3 2.2 1.7 1.6 1.4	1.3 1.2 1.6 1.2	1.0 1.2 1.5 1.1		0.47 0.38 0.35 0.40 0.46	0.23 0.22 0.20 0.19 0.20
6 7 8 9 10	0.04 0.04 0.05 0.06 1.2		2.4 2.5 2.4 2.4 2.4	1.5 1.5 1.5 1.4			7.8 28 31 9.0 4.7	15 4.3 2.7 2.3 2.6	1.6 1.1 0.99 0.99 1.3	2.0 1.9 1.8 2.0 1.8	0.45 0.45 0.40 0.36 0.30	0.19 0.20 0.27 0.39 0.32
11 12 13 14 15	9.1 0.83 1.1 1.1 0.99	1.7 1.8 1.6 1.4 1.6	2.6 2.6 1.9 1.8 2.0	0.83 1.4 1.1 1.4	1.4 1.5 1.4 1.3 0.81	1.5 1.5 1.5 1.6 1.5	3.7 3.3 9.9 5.1 3.5	3.1 3.4 5.4 2.4 2.3	1.1 0.87 1.6 1.0 1.5	1.3 1.7 1.1 0.72	0.37 0.42 0.42 0.45 0.42	0.34 0.31 0.31 0.31 0.45
16 17 18 19 20	0.92 1.1 1.1 1.2 1.3	1.6 2.2 1.5 1.4 1.5	18 7.2 1.9 1.7 1.7	1.6 1.6 1.5 1.6	1.4 1.4 1.4 1.5	1.4 1.3 2.2 88 31	2.8 2.4 2.1 2.0 1.9	2.1 2.9 2.3 2.0 2.0	3.6 0.96 0.62 0.54 0.56	0.81 0.99 0.86 0.62 0.53	0.34 0.31 0.31 0.29 0.28	0.41 0.42 0.41 1.6 0.41
21 22 23 24 25	1.5	e1.6 1.5 1.7 1.4 0.95	1.7 1.7 1.8 1.7	1.6	1.6 1.2 1.4 1.3	13 6.4 4.5 2.8 2.1	1.8 1.7 1.6 1.3	1.9 1.7 1.2 0.66 0.57	1.0 0.58 0.46 0.43 4.8	0.50 0.48 0.47 0.47 0.48	0.26 0.26 0.26 0.26 0.28	0.51 0.40 0.34 0.22 0.19
26 27 28 29 30 31	1.3 1.2 1.2 1.2 1.3	1.3 0.70 1.1 2.3 3.5		1.6 1.7 1.7 1.6 1.4 3.3	1.4 1.6 1.5 	1.8 1.6 1.6 1.7 5.0 3.5	1.4 1.3 1.2 1.2 1.6	0.88 1.9 1.9 2.0 1.7	0.82 0.52 1.1 1.3 6.4	0.45 0.43 0.40 0.39 0.39 0.47	0.28 0.26 0.26 0.26 0.27 0.24	0.19 0.47 0.45 0.46 0.40
TOTAL MEAN MAX MIN AC-FT	34.36 1.108 9.1 0.02 68	46.15 1.538 3.5 0.70 92	84.1 2.713 18 1.7 167	48.93 1.578 3.3 0.83 97	46.61 1.665 7.1 0.81 92	190.9 6.158 88 1.3 379	140.8 4.693 31 1.2 279	157.91 5.094 82 0.57 313	42.34 1.411 6.4 0.43 84	55.93 1.804 17 0.39 111	10.52 0.339 0.47 0.24 21	11.01 0.367 1.6 0.19 22
STATIST	rics of M	ONTHLY MEA				- 2002h		R YEAR (WY				
MEAN MAX (WY) MIN (WY)	30.14 294 1982 0.59 2000	1982 0.51	27.92 384 1992 0.000 1991	13.85 110 1992 0.96 2000	38.94 215 1997 0.94 2000	41.27 144 2001 1.00 2000	40.44 399 1990 1.06 2000	62.62 418 1989 0.71 1984	44.89 509 1989 0.46 1998	8.622 75.7 1982 0.032 1998	3.744 12.8 1997 0.000 1998	2.641 9.57 1994 0.024 2001
SUMMARY	Y STATIST	CICS	FOR	2001 CALE	NDAR YEAR	F	OR 2002 W	ATER YEAR		WATER YEA	RS 1980 -	2002h
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM INSTANT ANNUAL 10 PERC	MEAN I ANNUAL M I DAILY M DAILY ME SEVEN-DA M PEAK FI M PEAK ST I PANEOUS I RUNOFF ( CENT EXCE	IEAN IEAN IAN Y MINIMUM OW 'AGE OW FLOW AC-FT) IEDS		20060 91	Feb 24 0 Sep 1 0 Sep 7		1720 2.8	Mar 19 12 Oct 3 13 Oct 1 14 Mar 19 12 Mar 19		21290 50	1 Apr 27 0 Sep 12 0 Dec 26 Apr 27 7 Apr 27 0 Sep 12	1984 1987 1990 1990
	CENT EXCE			1.5			1.4			1.7 0.4		

h See PERIOD OF RECORD paragraph. a From floodmark.

08045850 Clear Fork Trinity River near Weatherford, TX--Continued



#### 08046500 Benbrook Lake near Benbrook, TX

LOCATION.--Lat 32°39'02", long 97°26'54", Tarrant County, Hydrologic Unit 12030102, in intake structure of Benbrook Dam on Clear Fork Trinity River, 2.5 mi south of Benbrook, 3.5 mi upstream from Marys Creek and 14.6 mi upstream from mouth.

DRAINAGE AREA. -- 429 mi<sup>2</sup>.

PERIOD OF RECORD.--Sept. 1952 to Sept. 2000, (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Benbrook Reservoir".

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 9,130 ft long, including a 500-foot uncontrolled off-channel concrete-gravity spillway with a 100-foot notch in center of ogee weir section. The outlet works consist of a 13.0-foot diameter concrete conduit controlled by two 6.5 by 13.0-foot broome-type gates and two 30-inch steel pipes controlled by slide gates. Deliberate impoundment began Sept. 29, 1952. From Aug. 1950 to Sept. 28, 1952, the lake was operated as a detention basin only. The capacity table is based on a survey made in 1945. The lake was built for flood control, navigation and low-flow regulation. Inflow is affected at times by the discharge from flood-detention pools of 12 floodwater-retarding structures with a combined detention capacity of 11,170 acre-ft. These structures control runoff from 37.6 mi<sup>2</sup>. Conservation pool storage is 85,650 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	747.0
Crest of spillway	724.0
Crest of notch in spillway	710.0
Top of conservation storage	693.3
Crest of intake to wet wells (inverts)	656.0
Lowest gated outlet (invert)	622.0

COOPERATION.--Capacity Table No. 4 was provided by the Texas Water Development Board, from a Jan. 1998 survey, and was put into use as of Oct. 1, 1999.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 212,200 acre-ft, May 3, 1990, elevation, 717.54 ft; minimum since lake first filled in 1957, 57,990 acre-ft, Sept. 30, 1999, elevation, 685.03 ft.

EXTREMES FOR 2001 WY YEAR.--Maximum contents, 117,400 acre-ft, Mar. 5, elevation, 701.60 ft; minimum contents, 47,730 acre-ft, Oct. 15, elevation, 681.80 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 105,000 acre-ft, Apr. 10, elevation, 698.84 ft; minimum contents, 65,740 acre-ft, Nov. 4, 5, 6, 7, 8, elevation, 688.10 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49510	49280	52210	60180	75130	112800	93280	87020	83390	80940	71180	62740
2	49300	49180	52370	60520	75630	115900	91610	86840	83330	81050	70630	63040
3	49130	49220	52550	60810	76060	116600	90970	86570	83280	80880	70160	63230
4	48970	49200	52740	61120	76410	117200	90470	86450	83160	80670	69710	63420
5	48850	49160	52940	61450	76750	116500	89940	86740	83010	80420	69240	63660
6	48700	49940	53130	61770	77030	114000	89420	87320	82930	80140	68770	63910
7	48680	50110	53340	62040	77340	111700	89120	87910	82840	79830	68340	64090
8	48690	50110	53510	62350	77650	109800	88920	87650	82790	79530	67830	64210
9	48680	50170	53700	62640	78020	110400	88610	86300	82780	79260	67340	64430
10	48590	50130	53860	62970	78260	109300	88550	85950	82750	78940	66840	64610
11	48440	50030	53960	63410	78500	107900	88850	85770	82650	78630	66390	64730
12	48260	50040	54050	63800	78730	110900	89330	85600	82560	e78370	65960	64880
13	48080	50100	54290	64180	79110	112500	89610	85420	82460	e78120	65530	65000
14	47920	50110	54450	64510	80560	110000	89810	85240	82370	e77670	e65230	65040
15	47810	50030	54620	64830	81780	108700	89950	85100	82600	e77330	e64540	65080
16	47870	49930	54760	65110	90020	107600	90020	84920	82590	e76900	64280	65170
17	47880	49830	54930	65510	97940	106500	89950	84750	82560	76620	64220	65210
18	47920	49810	55060	65900	100900	104300	89910	84580	82500	76260	64410	65220
19	47920	49740	55170	66300	102700	102400	89910	84450	82350	75910	64210	65300
20	47950	49670	55340	66640	103500	100200	89890	84300	82160	75560	63930	65440
21	48070	49710	55430	66930	102500	97790	89840	84050	82060	75210	63530	65700
22	48380	49840	55590	67210	100700	95500	89840	83960	82140	74870	63100	65840
23	48490	e50120	55740	67450	99430	93950	89730	83880	82000	74540	62740	65980
24	48740	e50420	55890	67650	101900	94570	89600	83760	81830	74190	62410	66020
25	48990	e50740	56130	67880	105300	97700	89320	83660	81640	73840	62060	66090
26 27 28 29 30 31	49180 49170 49040 49470 49500 49410	e51040 e51410 51560 51770 52040	57170 58140 58650 59040 59420 59780	68090 68290 68650 70930 73670 74540	105100 105200 108700 	97300 96540 97060 97160 96550 95020	88890 88430 88030 87620 87240	83630 83590 83670 83630 83500 83440	81430 81250 81060 80850 80710	73500 73160 72910 72600 72260 71790	61870 61780 61610 61420 61460 61840	66150 66240 66250 66300 66330
MEAN	48630	50150	55100	65400	88960	105300	89560	85150	82330	76840	65240	64980
MAX	49510	52040	59780	74540	108700	117200	93280	87910	83390	81050	71180	66330
MIN	47810	49160	52210	60180	75130	93950	87240	83440	80710	71790	61420	62740
(+)	682.43	683.40 +2630	686.13 +7740	690.83	699.69 +34160	696.43 -13680	694.42 -7780	693.39 -3800	692.62 -2730	690.00 -8920	686.82 -9950	688.29 +4490

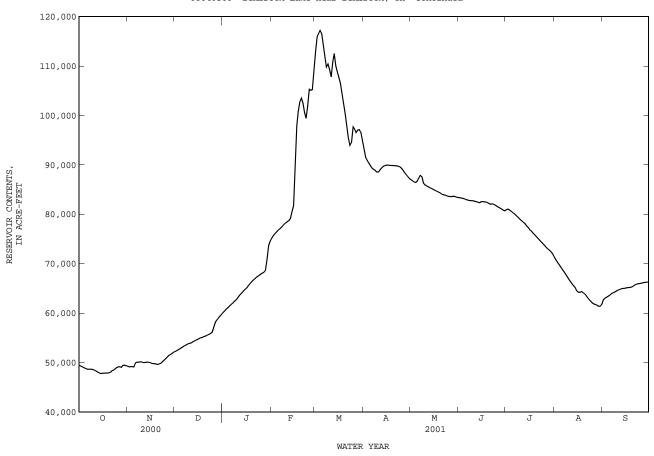
CAL YR 2000 MAX 110000 MIN 47810 (@) -4820 WTR YR 2001 MAX 117200 MIN 47810 (@) +16710

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in Contents, in acre-feet.

08046500 Benbrook Lake near Benbrook, TX--Continued



#### 08046500 Benbrook Lake near Benbrook, TX--Continued

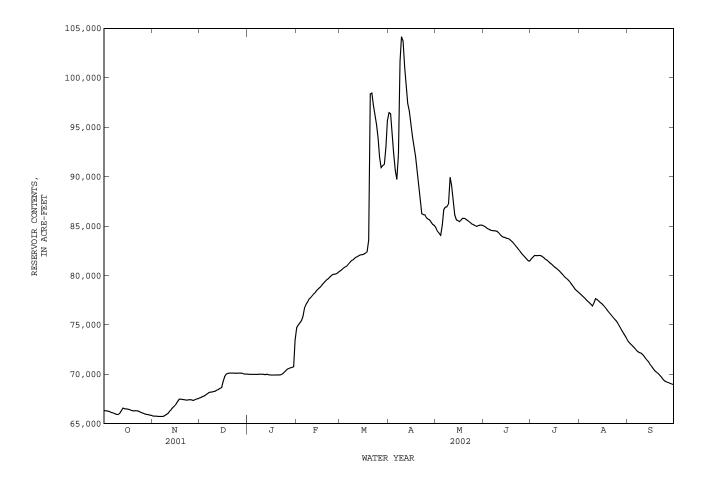
# RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66340	65790	67620	70010	74710	80480	96470	84820	84960	81680	78180	73320
2	66330	65770	67670	70000	74970	80610	96360	84470	84880	81870	78030	73140
3	66300	65770	67770	70000	75200	80730	94250	84280	84730	82030	77870	72980
4	66260	65760	67820	70000	75400	80870	92380	84070	84660	82020	77720	72820
5	66180	65740	67940	70000	75840	80950	90670	85090	84570	82010	77560	72650
6	66130	65740	68040	70000	76710	81130	89720	86630	84550	82030	77400	72470
7	66080	65750	68170	70000	77080	81330	92260	86900	84530	82010	77250	72300
8	66000	65770	68210	70030	77340	81500	101700	86950	84520	81910	77090	72210
9	65960	65850	68210	70030	77630	81580	104100	87240	84480	81800	76910	72160
10	65940	65960	68270	70020	77770	81740	103700	89930	84320	81640	77220	72020
11	66080	66080	68310	70000	77960	81850	101100	89140	84150	81540	77670	71840
12	66320	66320	68400	69970	78150	81920	99000	87550	83990	81390	77560	71600
13	66590	66470	68460	70010	78290	82040	97420	86120	83870	81260	77420	71420
14	66520	66670	68570	69970	78510	82100	96630	85620	83850	81140	77260	71250
15	66510	66810	68650	69940	78680	82120	95240	85570	83750	80970	77150	70980
16	66490	67000	69250	69940	78830	82170	94010	85440	83740	80830	76980	70790
17	66440	67270	69760	69940	79000	82250	e93020	85600	83670	80720	76780	70550
18	66380	67490	70020	69940	79200	82390	92060	85780	83520	80590	76590	70340
19	66330	67490	70110	69940	79370	e83560	90470	85780	83370	80450	76380	70230
20	66320	67460	70130	69950	79540	e98340	88990	85700	83170	80270	76180	70110
21	66320	67450	70130	69940	79650	98440	87530	85600	82980	80090	75990	69920
22	66310	67410	70130	69960	79810	97280	86230	85480	82800	79900	75800	69740
23	66280	67400	70130	70040	79960	96310	86160	85340	82590	79760	75620	69520
24	66190	67430	70120	70210	80100	95280	86120	85200	82380	79630	75460	69360
25	66120	67440	70120	70380	80130	93880	85830	85140	82200	79460	75250	69250
26 27 28 29 30 31	66070 65990 65960 65940 65890 65850	67420 67360 67420 67510 67540	70130 70130 70120 70060 70030 70030	70510 70580 70670 70700 70760 73450	80150 80240 80370 	91990 90900 91110 91240 93040 95650	85690 85630 85380 85150 85060	85040 84960 85040 85100 85110 85060	82020 81830 81650 81470 81460	79260 79060 78840 78600 78450 78320	74960 74670 74410 74130 73870 73590	69200 69120 69070 69020 68940
MEAN	66210	66710	69110	70220	78240	86610	92280	85800	83490	80630	76420	70940
MAX	66590	67540	70130	73450	80370	98440	104100	89930	84960	82030	78180	73320
MIN	65850	65740	67620	69940	74710	80480	85060	84070	81460	78320	73590	68940
(+)	688.14	688.68	689.46	690.50	692.53	696.59	693.84	693.84	692.84	691.94	690.55	689.12
(@)	-480	+1690	+2490	+3420	+6920	+15280	-10590	0	-3600	-3140	-4730	-4650

CAL YR 2001 MAX 117200 MIN 60180 (@) +10250 WTR YR 2002 MAX 104100 MIN 65740 (@) +2610

e Estimated(+) Elevation, in feet, at end of month.(@) Change in Contents, in acre-feet.

# 08046500 Benbrook Lake near Benbrook, TX--Continued



#### 08047000 Clear Fork Trinity River near Benbrook, TX

LOCATION.--Lat 32°39'54", long 97°26'30", Tarrant County, Hydrologic Unit 12030102, on left bank 1.5 mi downstream from Benbrook Dam, 1.7 mi southeast of Benbrook, 2.9 mi upstream from Marys Creek, and 13.1 mi upstream from mouth.

DRAINAGE AREA. -- 431 mi<sup>2</sup>.

PERIOD OF RECORD. -- July 1947 to current year.

REVISED RECORDS.--WDR TX-89-1: 1988.

GAGE.--Water-stage recorder. Datum of gage is 604.22 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1953, at least 10% of contributing drainage area has been regulated. There is a diversion 1.0 mi upstream for Pecan Valley Golf Course. No flow at times most years.

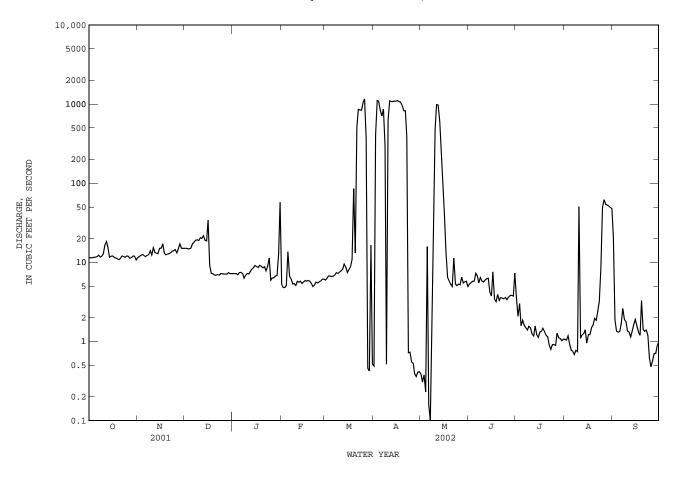
AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1948-52) prior to regulation by Benbrook Lake, 105 ft<sup>3</sup>/s (76,070 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1948-52).--Maximum discharge, 82,900 ft<sup>3</sup>/s, May 17, 1949, gage height, 28.72 ft from rating curve extended above 11,000 ft<sup>3</sup>/s on basis of velocity-area studies and slope-area measurement of 82,900 ft<sup>3</sup>/s; no flow at times most years. Maximum stage since at least 1922, that of May 17, 1949.

		DISCHARGE	FROM DCP,	CUBIC FEET		ECOND, WA LY MEAN V		OCTOBER 2001	TO SE	PTEMBER 200	2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	11 11 11 12 12	11 12 12 13 12	15 15 15 15 15	7.2 7.2 7.2 6.9 7.4	5.3 4.8 4.8 5.1	6.0 6.3 6.7 6.7	0.49 408 1110 1090 836	0.38 0.31 0.38 0.23	5.3 5.5 5.8 5.8 7.2	3.6 2.1 3.0 1.6 1.8	1.1 1.0 1.2 0.92 0.78	21 1.9 1.3 1.3
6 7 8 9 10	12 12 12 12 13	12 12 12 14 12	17 18 19 19	7.5 7.2 6.3 6.9 7.2	6.7 6.2 5.3 5.4 5.1	6.7 6.9 7.4 7.2 7.5	707 859 298 0.51 630	0.16 0.00 3.0 20 479	6.7 5.5 6.4 5.8 5.6	1.6 1.5 1.4 1.5	0.75 0.69 0.77 0.74 51	1.7 2.6 1.9 1.8 1.4
11 12 13 14 15	16 18 15 12	15 13 13 13 15	20 20 22 19 19	7.1 7.6 8.2 8.5 9.1	5.7 5.6 5.7 5.4 5.7	7.8 8.2 9.5 8.7 7.4	1100 1080 1080 1090 1090	984 971 602 194 89	5.9 6.2 6.3 4.2 3.8	1.2 1.2 1.6 1.2	1.1 1.2 1.3 1.4 0.95	1.3 1.1 1.3 1.6 1.9
16 17 18 19 20	12 11 11 11 11	15 17 13 12 13	34 9.2 7.2 7.2 6.9	8.8 8.6 9.1 8.9 8.5	5.9 5.8 5.9 5.8 5.4	8.1 8.8 11 85 13	1110 1070 1060 963 827	41 13 6.5 5.8 5.3	7.5 3.5 3.2 3.9 3.3	1.3 1.3 1.5 1.3	1.2 1.2 1.5 1.6 2.0	1.6 1.3 1.2 3.3
21 22 23 24 25	11 12 12 12 12	13 13 14 14 14	6.8 7.0 6.9 7.2 7.2	8.8 7.8 8.8 11 5.9	4.9 5.2 5.6 5.5 5.7	513 858 844 839 1050	823 389 0.72 0.73 0.55	4.9 11 5.3 5.1 5.3	3.6 3.5 3.5 3.6 3.4	1.1 0.90 0.79 0.91 0.91	1.8 2.4 3.2 8.5 49	1.3 1.4 1.2 0.62 0.48
26 27 28 29 30 31	12 11 11 12 12 11	13 15 17 15 15	7.1 7.1 7.1 7.4 7.2 7.2	6.3 6.4 6.7 6.8 13	5.8 6.1 6.1 	1160 374 0.46 0.42 16 0.52	0.53 0.39 0.36 0.41 0.41	5.2 6.5 5.5 5.6 5.7 4.9	3.6 3.8 3.8 3.7 7.3	0.89 1.3 1.1 1.1 1.0	62 54 53 51 50 48	0.57 0.70 0.71 0.88 0.98
MEAN MAX MIN	12.10 18 11	13.47 17 11	13.22 34 6.8	9.481 57 5.9	5.875 14 4.8	190.0 1160 0.42	587.5 1110 0.36	112.8 984 0.00	4.907 7.5 3.2	1.406 3.6 0.79	14.69 62 0.69	2.035 21 0.48
STATIST	TICS OF	MONTHLY MI	EAN DATA F	OR WATER YE	EARS 19	53 - 2002	z, BY WAT	TER YEAR (WY)	1			
MEAN MAX (WY) MIN (WY)	22.90 215 1994 0.000 1953	88.24 1479 1992 0.053 1971	56.90 680 1992 0.042 1954	79.34 1845 1992 0.000 1953	89.50 792 1992 0.000 1953	187.1 1734 1997 0.13 1953	121.7 881 1977 0.10 1959	217.4 2351 1990 0.000 1959	206.1 1804 1957 0.000 1953	57.01 1070 1989 0.029 1953	24.98 198 1979 0.000 1953	17.72 164 1962 0.000 1953
SUMMARY	Y STATIS	STICS	FOR	2001 CALENI	DAR YEA	R	FOR 2002	WATER YEAR		WATER YEAR	S 1953	- 2002z
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM 10 PERC 50 PERC	ANNUAL ANNUAL DAILY DAILY	MEAN MEAN MEAN DAY MINIMUI FLOW STAGE CEEDS CEEDS	М	138.8 1640 1.5 1.6 586 16 2.9	Mar 1 Jan Jan 3	2	0. 2500 8. 55 6.	Mar 26 .00 May 7 .35 Apr 28 Apr 7		97.35 514 0.27 6320 0.00 6740 14.71 196 6.9 0.10	May Oct Oct May May	1992 1953 3 1990 1 1952 1 1952 3 1990 3 1990

 $<sup>\</sup>ensuremath{\mathbf{z}}$  Period of regulated streamflow.

08047000 Clear Fork Trinity River near Benbrook, TX--Continued



#### 08047050 Marys Creek at Benbrook, TX

LOCATION.--Lat 32°41'42", long 97°26'49", Tarrant County, Hydrologic Unit 12030102, near left end of upstream side of bridge, 0.75 mi north of IH-20 on Wiscott Road in Benbrook, and 0.25 mi upstream from confluence with Clear Fork Trinity River.

DRAINAGE AREA. -- 24 mi<sup>2</sup>.

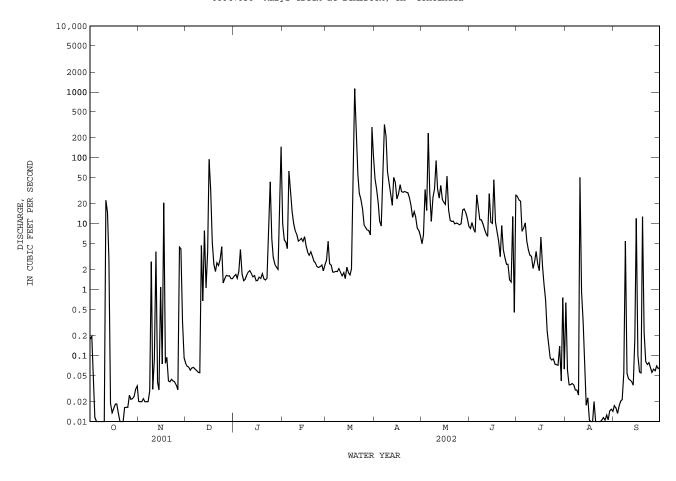
PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 604.97 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation. Low flow is affected at times by diversions from small dams upstream. No flow at times most years.

	Ι	DISCHARGE	FROM DCP,	CUBIC FEE		COND, WAT		CTOBER 20	001 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.18 0.19 0.03 0.01 0.00	0.02 0.02 0.02 0.02 0.02	0.08 0.07 0.07 0.06 0.07	1.6 1.7 1.5 1.9 4.1	10 5.7 5.3 4.2 63	2.8 5.4 2.5 2.4 1.8	48 34 21 11 9.2	5.0 6.8 33 16 235	8.4 10 8.4 7.4 27	26 23 22 7.6 8.5	0.63 0.06 0.04 0.04 0.04	0.02 0.02 0.01 0.02 0.02
6 7 8 9 10		0.02 0.03 2.6 0.03	0.07 0.06 0.06 0.06 0.05	1.7 1.4 1.4 1.7	31 15 9.9 7.9 6.9	1.8 1.9 1.9 2.1 1.8	64 320 212 62 43	30 11 25 34 91	18 11 11 9.9 8.2	10 5.4 4.0 3.3 3.2	0.04 0.03 0.03 0.03	0.02 0.05 5.5 0.05 0.04
11 12 13 14 15	0.01	0.09 3.8 0.04 0.03 1.1			5.4 5.7 6.0 5.4 6.4		28 19 50 42 24	34 25 38 23 21	7.1 6.4 29 11 10	2.1 2.7 3.8 2.4 1.9	0.93 0.32 0.06 0.02 0.02	0.04 0.04 0.04 0.18
16 17 18 19 20			95 33 5.2 2.4 1.9	1.4 1.5 1.5 1.7			28 39 31 30 31	20 53 16 11 11	46 11 7.5 5.4 3.2	6.3 2.3 1.2 0.71 0.23	0.01 0.01 0.01 0.02 0.00	0.10 0.06 0.05 13 0.22
21 22 23 24 25	0.01 0.01 0.02 0.02 0.02	0.04 0.04 0.04 0.04 0.04	2.6 2.3 2.9 4.5 1.3	1.4 1.5 10 43 6.0	2.7 2.5 2.2 2.2 2.2	55 29 23 17 9.6	30 30 25 19	11 10 10 10 9.6			0.00 0.01 0.01 0.01 0.01	0.08 0.07 0.08 0.07 0.06
26 27 28 29 30 31	0.03 0.02 0.02 0.02 0.03 0.03	0.03 4.4 4.2 0.33 0.09	1.5 1.6 1.6 1.5	3.1 2.4 2.2 2.0 16 147	2.4 1.9 2.4 	8.8 8.0 7.9 6.8 292	15 13 8.6 7.9 6.5	9.9 16 17 15 12 9.1	1.4 1.3 13 0.45 27	0.07 0.07 0.14 0.04 0.75 0.06	0.01 0.01 0.01 0.01 0.02 0.01	0.06 0.06 0.07 0.06 0.07
TOTAL MEAN MAX MIN AC-FT	41.55 1.340 23 0.00 82	38.39 1.280 21 0.02 76		269.3 8.687 147 1.4 534			1314.2 43.81 320 6.5 2610		320.25 10.68 46 0.45 635	138.25 4.460 26 0.04 274	52.45 1.692 50 0.00 104	32.16 1.072 13 0.01 64
STATIST					EARS 199		, BY WATER					
MEAN MAX (WY) MIN (WY)	3.962 6.53 1999 1.34 2002	32.7		18.29 50.2 2001 2.36 2000	51.61 181 2001 6.80 2000	53.95 127 2001 11.1 2000	27.82 43.8 2002 14.8 1999	38.88 87.5 1999 9.71 2000	40.05 130 2000 1.33 1998	4.500 9.58 2001 0.21 1998	1.680 5.98 2001 0.18 2000	1.611 4.33 2001 0.12 2000
SUMMARY	Y STATIST	rics	FOR	2001 CALEN	IDAR YEAR	. 1	FOR 2002 W	ATER YEAR	2	WATER YEA	RS 1998 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL 10 PERC 50 PERC	MEAN I ANNUAL ANNUAL M I DAILY M SEVEN-DA M PEAK FI M PEAK ST	MEAN MEAN AY MINIMUN LOW PAGE (AC-FT) EEDS	1	13959.02 38.24 1840 0.00 0.00 27690 90 7.9 0.03	Feb 16 ) Oct 5 ) Oct 4		5406.9 14.8 1120 0.0 0.0 4850 8.1 10720 29 2.1 0.0	Mar 19 0 Oct 5 0 Oct 4 Mar 19 4 Mar 19	) 	22.9 42.5 15.3 2880 0.0 0.0 20300 16.6 16610 47 4.0	Jun 4 0 Aug 21 0 Oct 4 Jun 4 6 Jun 4	1998 2001 2000

# 08047050 Marys Creek at Benbrook, TX--Continued



#### 08047500 Clear Fork Trinity River at Fort Worth, TX

LOCATION.--Lat 32°43′56", long 97°21′31", Tarrant County, Hydrologic Unit 12030102, at Fort Worth pumping station on left bank, 240 ft upstream from the Texas and Pacific Railway Co. bridge in Fort Worth, 830 ft upstream from East West Expressway bridge, 2.5 mi upstream from mouth, 5.0 mi downstream from Marys Creek, and 10.0 mi downstream from Benbrook Dam.

DRAINAGE AREA. -- 518 mi<sup>2</sup>.

PERIOD OF RECORD. -- Mar. 1924 to current year.

REVISED RECORDS. -- WSP 1392: 1924-25, 1927. WSP 1922: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 532.91 ft above NGVD of 1929. Prior to Apr. 3, 1970, various nonrecording and recording gages were located within 650 ft of present site at different datums. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since water year 1953, at least 10% of contributing drainage area has been regulated. The city of Fort Worth diverted water from pool at gage during the current year. The Benbrook Water and Sewage Authority diverted water from the river upstream from station during the current year for municipal use.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--28 years (water years 1925-52) prior to regulation by Benbrook Lake, 112  ${\rm ft}^3/{\rm s}$  (81,140 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925-52).--Maximum discharge,  $107,000 \text{ ft}^3/\text{s}$ , May 17, 1949, gage height, 28.20 ft, present datum, from rating curve extended above  $16,000 \text{ ft}^3/\text{s}$  on basis of contracted-opening measurement of  $107,000 \text{ ft}^3/\text{s}$ . No flow at times many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 25, 1922, reached a stage of 27.5 ft, present datum, discharge, 74,300 ft<sup>3</sup>/s, by slope-area measurement of peak flow; data furnished by Fort Worth city engineer. Maximum stage since at least 1900, that of May 17, 1949, at present datum.

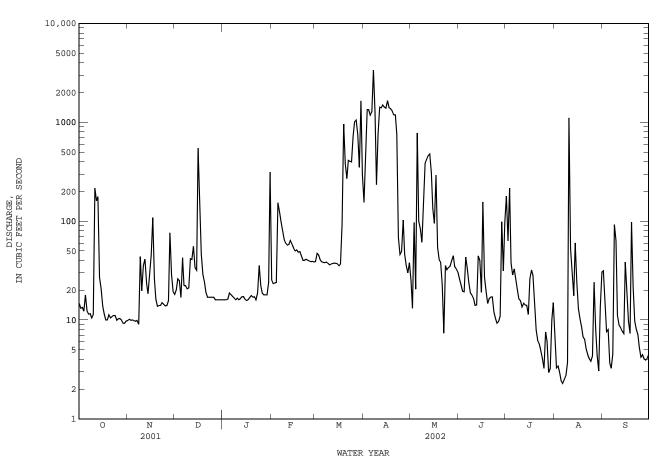
DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 9.9 6.8 e16 7.6 e16 3.3 9.9 e16 3.4 2.9 8.0 9.9 e154 e778 2.4 3.7 9.7 e124 e100 2.3 3.2 9.9 e98 e84 2.5 4.5 2.7 9 0 e79 e61 e142 e384 e418 8.9 e458 8.4 e478 7.7 2.7 9.7 8.5 7.3 e29 6.8 e24 8.0 6.4 9.8 e19 6.2 5.1 4.4 2.2 e17 7.3 5.8 8.0 4.9 e17 e17 3.8 5.3 9.9 e17 9.3 3.2 4.3 4.2 7.6 e17 1 a 9.6 4.4 2.7 e16 6.1 8.1 4.0 2.9 4.4 3.9 e16 9.3 e16 3.2 3.0 4 1 9.2 e16 ---4.5 9.8 e16 4370.3 917.9 TOTAL 896.2 724.3 879.0 1466.9 520.6 141.0 28.91 45.61 27.55 303.2 30.60 28.35 MEAN 24.14 54.61 924.6 47.32 17.35 MAX 7.3 9.2 9.0 2.9 MTN 2.3 9.3 2.3 3.2 AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2002z. BY WATER YEAR (WY) MEAN 56.08 107 5 86 71 109 3 137 7 254 4 187 6 306 5 256 9 72 28 32 43 31 13 MAX (WY) MTN 0.000 0.84 1 68 2 28 2 84 0 91 3 12 3.41 0 27 0.75 0 54 0.28 (WY) 

# 08047500 Clear Fork Trinity River at Fort Worth, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1953 - 2002z
ANNUAL TOTAL	73422.2	50709.2	
ANNUAL MEAN	201.2	138.9	136.4
HIGHEST ANNUAL MEAN			660 1992
LOWEST ANNUAL MEAN			4.55 1954
HIGHEST DAILY MEAN	2720 Feb 16	3350 Apr 7	11000 Mar 11 1990
LOWEST DAILY MEAN	5.7 Jul 28	2.3 Aug 6	0.00 Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	9.7 Oct 28	2.8 Aug 2	0.00 Oct 1 1952
MAXIMUM PEAK FLOW		14600 Apr 7	20900 May 2 1990
MAXIMUM PEAK STAGE		15.07 Apr 7	16.80 May 2 1990
ANNUAL RUNOFF (AC-FT)	145600	100600	98850
10 PERCENT EXCEEDS	846	382	299
50 PERCENT EXCEEDS	33	22	16
90 PERCENT EXCEEDS	13	7.0	1.2

Estimated Period of regulated streamflow.



#### 08048000 West Fork Trinity River at Fort Worth, TX

LOCATION.--Lat 32°45'39", long 97°19'56", Tarrant County, Hydrologic Unit 12030102, on left bank 125 ft upstream from Texas Electric Service Co. concrete dam, 980 ft downstream from centerline of Paddock Viaduct (North Main Street) at Fort Worth, 2,600 ft downstream from Clear Fork Trinity River and at mile 556.8.

DRAINAGE AREA. -- 2,615 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1920 to current year. Gage-height records collected in this vicinity since 1910 are contained in reports of the National Weather Service.

Water-quality records.--Chemical data: Oct. 1967 to Sept. 1976. Biochemical data: Oct. 1967 to Sept. 1976.

REVISED RECORDS. -- WSP 1392: 1925. WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete dam control with angle-iron-crested notch for flow below 50 ft<sup>3</sup>/s. Datum of gage is 519.24 ft above NGVD of 1929. Prior to Aug. 22, 1954, at site 1,200 ft upstream at same datum. Aug. 22, 1954, to Oct. 15, 1955, at site 2,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in Oct. 1920, at least 10% of contributing drainage area has been regulated. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake. The city of Fort Worth diverts water upstream of station and from Cedar Creek Reservoir (station 08063010) for municipal and industrial uses and returns wastewater effluent to river downstream from West Fork Trinity River at Beach Street (station 08048543). There are many small diversions upstream from station. Maximum stages have been affected by levee construction, levee breaks and channel rectification. No flow at times.

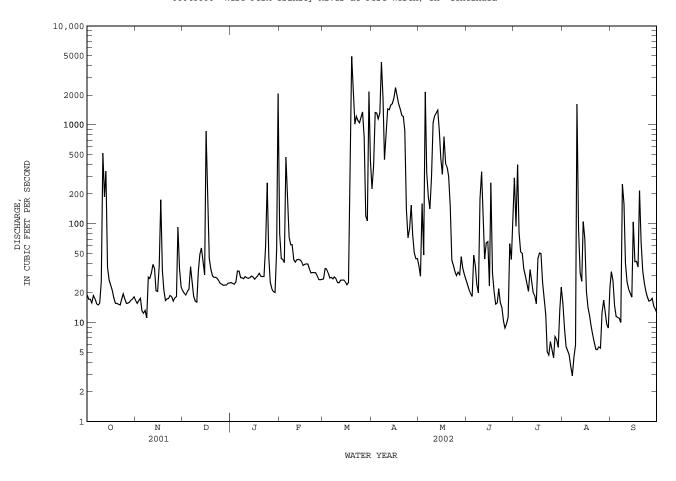
DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1866, that of May 17, 1949.

	_			,	DAILY	MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	21	25	79	28	225	37	24	290	16	33
2	17	16	20	25	44	35	384	29	22	94	8.8	27
3	17	17	19	24	43	35	1340	160	20	396	5.7	15
4	16	18	21	26	41	32	1320	48	18	82	5.2	12
5	19	13	22	33	471	28	1150	2150	48	52	4.7	11
6	17	12	37	33	186	29	1320	327	37	50	3.6	11
7	16	13	26	28	73	28	4300	187	24	35	2.9	10
8	15	11	19	28	61	29	1830	141	20	29	4.5	251
9	16	29	16	28	61	28	445	300	179	25	5.9	158
10	26	28	16	29	43	25	774	1050	335	21	1620	40
11	516	32	34	28	41	25	1450	1230	144	34	88	26
12	187	39	49	28	43	27	1420	1310	44	26	32	22
13	342	e35	57	28	44	27	1590	1410	64	20	26	20
14	36	e21	41	30	43	27	1640	856	66	19	105	18
15	27	21	30	29	41	26	1870	460	24	16	71	104
16	24	37	868	27	38	24	2390	317	259	44	21	41
17	21	174	245	29	39	25	1940	760	32	51	14	42
18	18	33	44	30	39	199	1640	407	21	50	12	37
19	16	21	35	32	39	4920	1450	372	15	26	9.3	217
20	16	17	30	29	35	2200	1250	302	16	17	7.6	65
21	15	17	29	29	32	1020	1210	149	22	12	6.3	33
22	15	18	29	29	32	1220	873	43	16	e5.1	5.4	25
23	17	19	28	59	32	1110	139	38	14	e4.7	5.3	21
24	19	18	27	259	e32	1050	72	33	10	6.4	5.7	18
25	17	16	25	46	30	1200	89	30	8.8	5.3	5.5	16
26 27 28 29 30 31	16 16 17 17 18	18 18 93 35 23	24 24 24 e24 25 25	26 22 21 20 54 2060	27 27 27 	1350 755 120 107 2170 437	154 78 51 44 44	32 31 46 36 31 27	9.7 11 63 43 95	4.4 7.3 6.7 5.6 14 23	13 17 13 9.7 8.8 23	17 18 15 14 13
TOTAL	1564	879	1934	3194	1743	18336	32482	12349	1704.5	1471.5	2175.9	1350
MEAN	50.45	29.30	62.39	103.0	62.25	591.5	1083	398.4	56.82	47.47	70.19	45.00
MAX	516	174	868	2060	471	4920	4300	2150	335	396	1620	251
MIN	15	11	16	20	27	24	44	27	8.8	4.4	2.9	10
AC-FT	3100	1740	3840	6340	3460	36370	64430	24490	3380	2920	4320	2680
STATIST	rics of M	ONTHLY MEA	AN DATA I	FOR WATER Y	EARS 1921	- 2002	, BY WATER	YEAR (WY	( )			
MEAN	284.0	281.2	266.2	243.6	389.5	539.6	609.2	1116	765.5	237.9	114.1	148.7
MAX	4548	3855	6071	3521	4130	3523	5595	12430	10240	3030	1447	2482
(WY)	1982	1982	1992	1992	1997	1998	1942	1990	1989	1941	1950	1962
MIN	0.12	3.64	5.02	6.08	5.57	4.72	7.71	15.2	5.73	1.33	0.000	0.000
(WY)	1940	1956	1935	1930	1940	1940	1930	1959	1954	1956	1956	1930
SUMMARY	Y STATIST	ICS	FOR	2001 CALEN	DAR YEAR	1	FOR 2002 W	TER YEAR	!	WATER YEA	ARS 1921 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL 10 PERCE 50 PERCE	MEAN F ANNUAL ANNUAL M F DAILY M DAILY ME	EAN EAN AN Y MINIMUM OW AGE AC-FT) EDS EDS		163327.1 447.5 6300 8.1 12 324000 1790 41 16	Feb 27 Jul 28 Jul 27		79182.9 216.9 4920 2.9 4.6 16500 6.37 157100 807 29 12	Mar 19 Aug 7 Aug 3 Mar 19		416.1 1823 15.6 47300 0.0 0.0 85000 25.5 301500 1070 40	Apr 25 00 Aug 2 00 Jul 24 Apr 25 01 May 17	1924 1925 1922

e Estimated

# 08048000 West Fork Trinity River at Fort Worth, TX--Continued



#### 08048543 West Fork Trinity River at Beach Street, Fort Worth, TX

LOCATION.--Lat 32°45′06", long 97°17′21", Tarrant County, Hydrologic Unit 12030102, on downstream side of bridge on Beach Street, 1,700 ft downstream from Sycamore Creek, 0.9 mi downstream from Riverside Drive bridge, 2.6 mi east of the Tarrant County Courthouse and at mile 549.6.

DRAINAGE AREA.--2,685 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 478.70 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records poor. Since installation of gage in Oct. 1976, at least 10% of contributing drainage area has been regulated. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake. There are many diversions upstream from this station for municipal, industrial, and other uses.

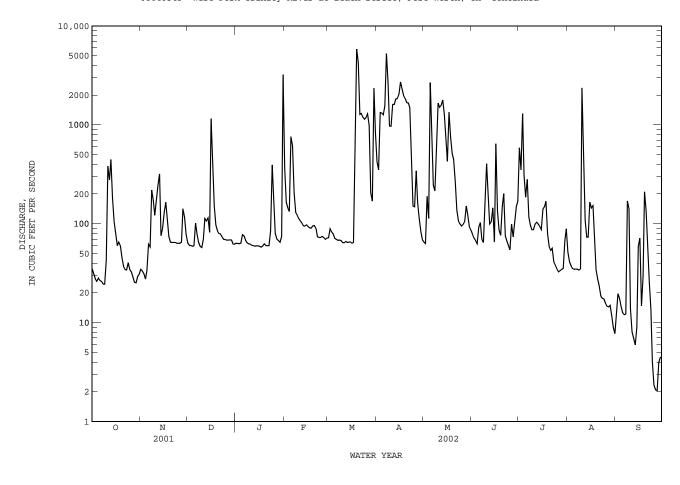
DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1866 probably occurred in May 1949 (stage and discharge unknown). Maximum stages have been affected by levee construction, levee breaks, and channel rectification.

		DISCHARGE	FROM DCP,	CORIC PERI		MEAN V		JCIOBER 200	1 10 SE	PIEMBER 20	102	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	35	64	64	368	72	424	65	78	585	52	12
2	31	33	61	63	164	89	351	63	72	351	41	20
3 4	28 26	31 28	60 59	63 63	144 133	83 79	1330 1320	190 113	68 63	1300 309	38 35	17 14
5	28	34	60	77	760	79	1260	2690	92	185	35	13
6 7	27 26	62 58	102 79	75 68	613 206	69 68	1550 5270	643 245	103 71	281 117	35 35	12 12
8	25	219	65	64	131	68	2690	214	64	96	34	170
9	24	e171	59	62	123	68	972	580	153	87	35	142
10	43	122	58	62	113	65	968	1660	403	87	2360	14
11	e383	171	70	61	106	64	1620	1510	e220	99	530	8.0
12	e277	e245	113	60	102	66	1610	1570	e99	104	108	6.9
13	e446	319	106	59	96	65	1830	1790	105	100	73	6.0
14 15	e181 e105	76 e90	114 82	60 60	95 98	65 65	1850 2020	1270 715	145 65	94 88	73 165	8.9 59
13	6103	E90	02	80	90	05	2020	/15	05	00	103	39
16	e80	e130	1160	59	93	63	2720	427	644	140	144	72
17 18	e60 65	e165 106	478 150	58 59	91 90	65 279	2290 1990	1340 755	134 86	149 169	152 72	15 29
19	60	74	97	63	95	5830	1850	512	76	e79	34	210
20	46	65	85	60	96	4270	1680	447	149	e59	28	135
21	37	65	80	60	90	1270	1660	260	202	54	23	68
22	34	65	78	60	74	1310	1490	269 137 107 100 95	202 75 67	56	19	26
23	34	65	74	85	73	1200	371	107	67	41	18	14
24	40	63	70	392	73	1140	151	100	60	38	17	4.0
25	34	63	69	160	74	1190	148	95	54	35	16	2.3
26	33	63	68	80	72	1290	342	98	99	33	15	2.1
27	29	65	68	70	69	990	163	105	74	33	14	2.1
28 29	26 25	142 117	69 68	68 65	71 	205 169	112 84	151 124	105 150	35 35	15 12	3.9 4.4
30	29	78	62	74		2350	69	94	168	67	8.9	4.5
31	31		62	3220		846		87		89	7.7	
TOTAL	2348	3020	3890	5594	4313	23524	40185	18166	3944	4995	4244.6	1107.1
MEAN	75.74	100.7	125.5		154.0	758.8	1340	586.0			136.9	36.90
MAX	446	319	1160	3220	760	5830	5270	2690	644		2360	210
MIN	24	28	58	58	69	63	69	63	54	33	7.7	2.1
AC-FT	4660	5990	7720	11100	8550	46660	79710	36030	7820	9910	8420	2200
STATIST	TICS OF	MONTHLY ME	AN DATA F	OR WATER YE	ARS 1977	- 2002	, BY WATER	R YEAR (WY)				
MEAN	430.0	445.5	441.0		584.6	974.6	690.2	1557	1135	218.9	102.8	85.04
MAX	4881					3655	5668	12540	9448	1654	557	216
(WY)	1982	1982	1992		1997	1998 43.9	1990	1990	1989	1982	1995	1980
MIN (WY)	9.82 1978	23.8 1980	13.7 1978	30.2 1978	33.5 1996	1986	35.3 1983	20.2 1996	22.4 1978	5.67 1978	9.21 1985	9.27 1984
	STATIS			2001 CALEND				WATER YEAR	1370	WATER YEA		
SUMMARI	SIAIIS	1105	FOR	2001 CALEND	AR ILAK	1	FOR 2002 V	NAIL MAILN		WAIER IEF	TKS 19//	- 2002
ANNUAL				196627			115330.7			582.0		
ANNUAL	MEAN CANNUAL	MEAN		538.7			316.0					1992
	ANNUAL									40.1		1978
	DAILY			7410	Feb 27		5830	Mar 19		35200		3 1990
	DAILY M			13	Jul 29		2.1	1 Sep 26		0.7		7 1998
	SEVEN-D 1 PEAK F	AY MINIMUM LOW	1	16	Jul 27		20300	Mar 19 1 Sep 26 3 Sep 24 Mar 19 91 Mar 19		0.8 46600		5 1998 2 1990
	1 PEAK S						29.9	91 Mar 19		38.0		2 1990
ANNUAL	RUNOFF	(AC-FT)		390000							2	
	CENT EXC			1930			1170			1530		
	CENT EXC			80 24			76 26			55 15		
JU FERC	TIMI EVC			44			20			13		

e Estimated

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued



#### 08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD. --CHEMICAL DATA: Oct. 1976 to Sept. 1999. BIOCHEMICAL DATA: Oct. 1976 to Sept. 1999.

PERIOD OF DAILY RECORD. -

SPECIFIC CONDUCTANCE: Oct. 1976 to Sept. 2002 (discontinued). pH: Oct. 1976 to Sept. 2002 (discontinued). WATER TEMPERATURE: Oct. 1976 to Sept. 2002 (discontinued). DISSOLVED OXYGEN: Oct. 1976 to Sept. 2002 (discontinued).

INSTRUMENTATION .-- Water-quality monitor since Oct. 1976.

REMARKS.--Records poor. Interruption in the record was caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request. Dissolved oxygen values bypassing saturation can be attributed to algae blooms in close proximity to the well intake intake.

EXTREMES FOR PERIOD OF DAILY RECORD. --

TREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 2,000 microsiemens/cm, Nov. 6, 1978; minimum, 86 microsiemens/cm, July 1, 2001.
pH: Maximum, 9.8 units, Aug. 8, Sept. 2, 1980; minimum, 6.4 units, June 16, 2002.
WATER TEMPERATURE: Maximum, 38.5°C, Aug. 21, 1993; minimum, 0.0°C, Jan. 31, Feb. 1, 2, 1985.
DISSOLVED OXYGEN: Maximum, 22.1 mg/L, Oct. 4, 1983; minimum, 0.0 mg/L, on many days during winter months.

EXTREMES FOR CURRENT YEAR --

TREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 632 microsiemens/cm, Mar. 17; minimum, 135 microsiemens/cm, Aug. 10. pH: Maximum, 9.0 units, Aug. 16; minimum, 6.4 units, June 16.
WATER TEMPERATURE: Maximum, 33.2°C, July 11, 24, 25; minimum, 5.8°C, Jan. 4.
DISSOLVED OXYGEN: Maximum, 15.3 mg/L, July 10; minimum, 2.7 mg/L, Aug. 10.

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

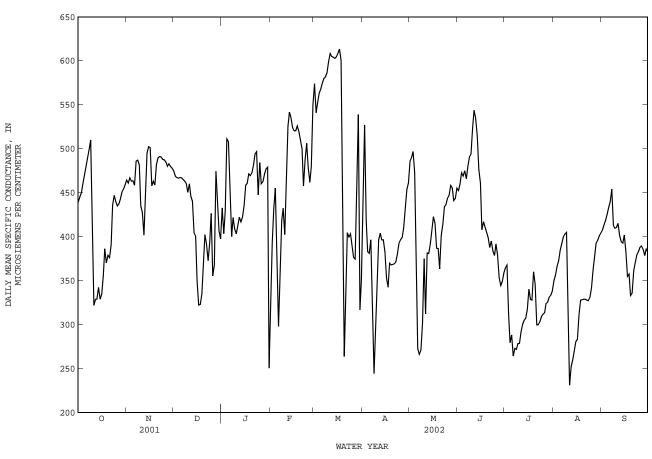
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	7
1			e439	481	442	465			e475	441	416	433
2			e445	474	445	461			e469	442	365	403
3			e450	484	450	467	470	462	467	491	386	429
4			e460	477	446	463	470	463	467	517	491	511
5			e470	475	442	464	469	465	467	516	502	508
6			e480	468	439	458	469	465	467	502	396	460
7			e490	502	458	486	470	455	465	429	393	400
8			e500	500	470	487	467	451	464	458	395	422
9			e510	609	415	482	465	442	461	426	397	409
10		364	e435	446	427	435	461	441	451	406	399	403
11	393	197	322	473	348	428	473	454	460	436	403	413
12	381	226	329	481	309	402	473	436	446	436	409	422
13	345	226	329	489	405	460	447	416	440	420	414	417
14	349	335	342	503	489	495	433	384	405	433	417	422
15	347	316	329	507	498	502	442	381	401	440	429	436
16	350	316	335	514	470	501	446	229	350	466	439	459
17	380	343	356	504	348	458	335	312	322	465	456	461
18	431	370	386	471	451	463	340	310	323	481	459	472
19	381	359	370	467	455	459	350	325	335	479	464	470
20	400	365	379	491	467	482	393	350	374	477	470	473
21	385	365	376	493	487	490	415	389	402	492	476	482
22	443	374	391	494	488	491	423	356	391	498	488	494
23	460	408	436	494	487	491	400	346	373	501	491	497
24	461	423	447	489	487	488	421	350	393	502	348	448
25	463	411	440	491	485	488	455	373	426	498	455	484
26	461	400	435	491	481	485	373	350	355	475	451	460
27	454	411	437	484	476	480	418	355	368	471	457	462
28	458	411	443			e483	500	418	474	477	461	471
29	466	421	451			e480	490	396	441	481	473	477
30	477	428	454			e478	433	383	407	483	430	479
31	477	439	460				431	381	397	475	159	250
MONTH			417			472			417	517	159	446

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	•		MARCH			APRIL			MAY	
1 2 3 4 5	351 419 455 461 474	255 333 419 449 265	307 394 434 455 366	582 580 562 568 575	559 531 543 554 564	574 541 552 563 568	531 538 526 	381 508 353 	463 527 418 e383 e381	  	  	e486 e490 e497 e473 e345
6 7 8 9 10	335 399 450 452 413	272 335 399 403 396	298 370 418 432 402	581 583 588 595 613	569 578 578 579 589	575 580 582 587 599	  	  	e396 e339 e244 e299 e351	 336 346 418	 153 231 300	e273 e266 271 302 375
11 12 13 14 15	515 538 550 540 530	404 514 533 528 520	476 526 542 535 524	611 608 607 606 609	606 602 602 601 600	609 605 604 603 605	  	  	e396 e404 e396 e396 e383	384 392 398 402 422	253 358 354 382 390	312 381 381 392 406
16 17 18 19 20	522 523 535 	519 519 519 	521 521 526 e520 e510	611 632 631 576 339	597 610 529 154 159	609 614 601 345 264	382 369 379 381 379	210 319 362 356 359	353 343 370 368 368	441 454 415 399 392	411 321 360 353 342	423 415 387 387 363
21 22 23 24 25	465 506 523 499	453 464 459 462	e500 458 487 506 478	396 421 420 416 403	292 384 391 388 374	352 405 400 403 389	377 386 399 	361 361 362 	369 371 380 e393 e396	423 439 456 457 462	390 405 415 420 426	401 414 434 436 444
26 27 28 29 30 31	467 528 560 	457 460 532 	462 480 550 	388 399 550 550 532 398	367 366 380 525 169 288	377 375 448 539 317 351	  	  	e399 e410 e433 e453 e461	496 485 493 449 455 476	431 434 439 434 433 439	447 458 455 441 443 455
MONTH			464	632	154	501			388			402
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
DAY  1 2 3 4 5	MAX 467 473 493 488 493		MEAN 453 460 473 469 475	381 377 373 306 333		364 368 312 279 288	MAX		e350 e356 e366 e373 e384	414 422 424 431 438	SEPTEMB	
1 2 3 4	467 473 493 488	JUNE 441 440 457 447	453 460 473 469	381 377 373 306	JULY 346 360 211 268	364 368 312 279		AUGUST	e350 e356 e366 e373	414 422 424 431	393 408 412 421	407 413 418 426
1 2 3 4 5 6 7 8	467 473 493 488 493 474 491 506 509	JUNE 441 440 457 447 463 458 463 470 473	453 460 473 469 475 466 480 490 494	381 377 373 306 333 276 289 300 291	JULY  346 360 211 268 239  226 266 251 265	364 368 312 279 288 264 273 272 278	   400 405 408 410	AUGUST 386 394 398 395	e350 e356 e366 e373 e384 392 400 403 405	414 422 424 431 438 451 461 462 421	393 408 412 421 429 434 448 335 387 400	407 413 418 426 434 440 454 413 409
1 2 3 4 5 6 7 8 9 10 11 12 13 14	467 473 493 493 493 474 491 506 509 538	JUNE 441 440 457 447 463 458 463 470 473 492 500 454	453 460 473 469 475 466 480 494 524 e544 e535 515 476	381 377 373 306 333 276 289 300 291 299 317 317 317 316	JULY  346 360 211 268 239 226 266 251 265 260 274 285 298	364 368 312 279 288 264 273 272 278 279 292 301 305 307	400 405 408 410 407 252	AUGUST 386 394 398 395 135	e350 e356 e366 e373 e384 392 400 403 405 310 231 e252 e260 e270	414 422 424 431 438 451 461 462 421 425 425 411 401	393 408 412 421 429 434 448 335 387 400 396 383 383 377	407 413 418 426 434 440 454 413 409 410 415 401 393
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	467 473 493 488 493 474 491 506 509 538  534 506 495 443 439 438 420	JUNE 441 440 457 447 463 458 463 470 473 492 500 454 431 337 406 399 376	453 460 473 469 475 466 480 494 524 e544 e535 515 476 461 408 417 411 405	381 377 373 306 333 276 289 300 291 299 317 317 316 335	JULY  346 360 211 268 239 226 266 251 265 260 274 285 298 302 329 313 319	364 368 312 279 288 264 273 272 278 279 292 301 305 307 317 340 328 328 328 328	  400 405 408 410 407 252  307 296 323 333 339	AUGUST 386 394 398 395 135 214 269 276 290 322 314	e350 e356 e366 e373 e384 392 400 403 405 310 231 e252 e260 e270 280 283 311 328	414 422 424 431 438 451 461 462 421 425 425 411 400 407 406 366 364 366	393 408 412 421 429 434 448 335 387 400 396 383 385 377 385 348 345 348	407 413 418 426 434 440 454 413 409 410 415 401 394 402 383 385 357 333
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	467 473 493 488 493 474 491 506 509 538  534 506 495 443 439 438 420 413 409 410 400 395	JUNE  441 440 457 447 463  458 463 470 473 492 500 454 431  337 406 399 376 346  364 379 363 361	453 460 473 469 475 466 480 499 4524 e544 e535 515 476 461 408 417 411 405 398 388 395 383 379	381 377 373 306 333 276 289 300 291 299 317 317 316 335 351 339 338 	JULY  346 360 211 268 239 226 265 251 265 260 274 285 297 298 302 329 313 319 298	364 368 312 279 288 264 273 279 292 301 305 307 317 340 328 328 328 328 328 328 328 331 313 324 325 331 324 324 325 331 333	  400 405 408 410 407 252  307 296 323 333 339 343 342 336 339 357 372 394 396 401 405	AUGUST  386 394 398 395 135 214 269 276 290 322 314 313 314 308 315 321 329 353 370 389 399 393	e350 e356 e366 e373 e384 392 400 403 405 310 231 e252 e260 e270 280 228 328 328 329 329 329 329 329 329 329 329 329 329	414 422 424 431 438 451 461 462 421 425 425 411 400 407 406 366 364 366 359 370 381 388 391	393 408 412 421 429 434 448 335 387 400 396 383 385 377 385 348 345 348 345 348 345 348 345 348 345 348 345 348 345 348 345 348	407 413 418 426 434 440 454 413 409 410 415 401 393 402 383 355 357 333 336 361 371 383
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	467 473 493 488 493 474 491 506 509 538  534 506 495 443 439 439 439 410 400 395 404 402 363 363 363 363 363 364	JUNE  441 440 457 447 463  458 463 470 473 492  500 454 431  337 406 399 376 346  364 379 363 361 370  332 333 296 299 341	453 460 473 469 475 466 480 494 524 e544 e535 515 476 461 408 417 411 405 398 388 395 383 379 392 379 353 345 349 358	381 377 373 306 333 276 289 300 291 299 317 317 316 335 351 339 338   315 320 324 331 339 340 348	JULY  346 360 211 268 239 226 266 251 265 260 274 285 297 302 313 319 298 302 303 315 315 315 323 325	364 368 312 279 288 264 273 272 278 279 292 301 305 307 317 340 328 2360 e346 e300 e3303 309 312 313 324 325 331	  400 405 408 410 407 252  307 296 323 333 343 343 342 336 339 357 372 394 401	AUGUST  386 394 398 395 135 214 269 276 290 322 314 313 314 308 315 321 329 353 370 389 393	e350 e356 e366 e373 e384 392 400 403 405 310 231 e252 e260 e270 280 283 311 328 329 329 328 327 331 342 362 379 396	414 422 424 431 438 451 461 462 421 425 425 411 400 407 406 366 364 366 359 370 381 388 391 392	393 408 412 421 429 434 448 335 387 400 396 383 385 377 385 348 345 348 296 308 354 362 370 374 381 383 373 368 381 377	407 413 418 426 434 440 454 410 410 415 401 393 402 383 355 357 333 336 361 371 380 383 388 388 388

e Estimated

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued

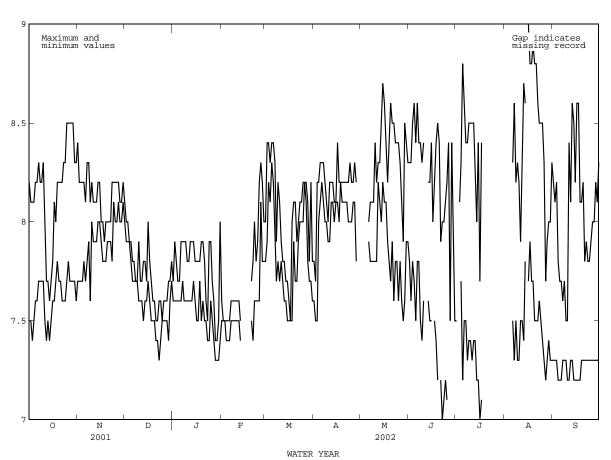


PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1 2 3 4 5	8.2 8.1 8.1 8.1 8.2	7.5 7.5 7.4 7.5 7.6	8.4 8.2 8.2 8.2 8.2	7.7 7.7 7.7 7.7 7.8	8.1 8.0 8.0 7.9 7.9	8.0 7.9 7.9 7.9	7.7 7.9 7.8 7.7 7.7	7.6 7.6 7.6 7.6 7.6	7.6 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.4 7.4	8.0 8.4 8.4 8.3 8.4	7.8 7.9 8.2 8.1 8.3
6 7 8 9 10	8.2 8.3 8.2 8.2 8.3	7.6 7.7 7.7 7.7 7.7	8.1 8.3 8.3 8.1 8.2	7.7 7.8 7.9 7.6 8.0	7.8 7.8 7.7 7.7	7.7 7.7 7.7 7.7 7.6	7.9 7.9 7.9 7.9 7.8	7.6 7.7 7.6 7.6	7.5 7.6 7.6 7.6 7.6	7.4 7.5 7.5 7.5 7.5	8.4 8.3 7.9 8.2 8.1	8.2 7.9 7.7 7.8 7.7
11 12 13 14 15	8.0 7.7 7.7 7.6 7.7	7.5 7.4 7.5 7.4 7.5	8.1 8.1 8.1 8.2 8.2	7.9 7.9 7.9 8.0 8.0	7.7 7.7 7.8 7.8 7.7	7.6 7.6 7.5 7.6 7.6	7.8 7.9 7.9 7.9 7.8	7.6 7.6 7.6 7.7 7.6	7.6 7.6 7.5 	7.5 7.5 7.4 	7.9 7.8 7.8 7.7 7.7	7.8 7.7 7.6 7.6 7.5
16 17 18 19 20	7.8 8.1 8.0 8.2 8.2	7.6 7.6 7.7 7.8 7.7	8.0 8.0 7.9 8.0 8.0	7.9 7.8 7.8 7.8 7.9	8.0 7.8 7.7 7.6 7.6	7.7 7.6 7.5 7.5 7.5	7.8 7.8 7.8 7.9 7.9	7.5 7.5 7.7 7.5 7.6	   7.7	   7.5	7.6 7.5 8.0 8.1 8.1	7.5 7.5 7.5 7.9 7.7
21 22 23 24 25	8.2 8.2 8.3 8.3	7.7 7.6 7.6 7.6 7.7	8.0 8.0 8.2 8.2 8.2	7.9 7.9 7.8 8.1 8.0	7.5 7.5 7.6 7.6 7.5	7.4 7.4 7.3 7.4 7.5	7.8 7.6 7.5 7.9 7.9	7.5 7.5 7.4 7.4 7.6	7.8 8.0 7.8 7.9 8.2	7.4 7.6 7.6 7.6 7.6	7.9 8.0 8.1 8.1	7.7 7.9 8.0 8.0
26 27 28 29 30 31	8.5 8.5 8.5 8.3	7.8 7.7 7.7 7.7 7.7 7.6	8.2 8.2 8.1 8.1 8.2	8.0 8.1 8.0 8.0 8.1	7.6 7.6 7.7 7.7 7.7	7.5 7.5 7.5 7.4 7.6 7.7	7.7 7.6 7.4 7.4 7.5 8.0	7.5 7.4 7.3 7.3 7.3 7.4	8.3 8.2 8.0 	8.1 7.8 7.8 	8.2 8.2 8.1 7.8 8.2 7.8	8.2 8.1 7.8 7.7 7.7
MONTH	8.5	7.4	8.4	7.6	8.1	7.3	8.0	7.3			8.4	7.5

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APF	RIL	MZ	ΔY	JUI	VE.	JUI	LY	AUGI	JST	SEPTE	MBER
1 2 3 4 5	7.8 7.7 8.2 8.2 8.3	7.6 7.5 7.5 8.0 8.1	  	  	8.3 8.3 8.5 8.6 8.4	7.8 7.6 7.8 7.7 7.5	7.5  8.1 8.3 8.8	  7.7 7.2	  	  	8.2 8.1 8.2 7.8 7.7	7.3 7.3 7.3 7.2 7.2
6 7 8 9 10	8.3 8.3 8.2 8.1 8.0	8.2 8.1 8.0 8.0 7.9	8.0 8.1 8.1 8.1 8.4	7.9 7.8 7.8 7.8 7.8	8.6 8.4 8.4 8.3 8.4	7.8 7.8 7.5 7.4 7.6	8.6 8.4 8.4 8.5 8.5	7.5 7.5 7.3 7.4 7.4	8.3 8.6 8.2 8.3 8.2	7.5 7.3 7.5 7.3 7.3	7.7 7.6 7.7 7.5 7.5	7.2 7.3 7.3 7.3 7.2
11 12 13 14 15	8.2 8.2 8.2 8.1 8.1	7.9 8.1 8.1 8.0 8.1	8.2 8.3 8.3 8.5 8.7	7.8 8.2 8.1 8.0 8.2	8.2 8.2 8.4	7.6 7.5 7.5	8.5 8.5 8.3 8.0 8.4	7.3 7.4 7.4 7.2 7.2	7.9 8.3 8.7 8.6	7.5 7.5 7.4 7.8	8.4 8.1 8.6 8.5 8.2	7.2 7.3 7.3 7.2 7.2
16 17 18 19 20	8.4 8.2 8.2 8.2 8.2	8.1 8.0 8.2 8.1 8.1	8.6 8.4 8.2 8.4 8.6	8.1 8.1 7.9 7.8 7.7	8.0 8.2 8.4 8.5 8.4	7.5 7.4 7.2	7.7 8.4 	7.0 7.1 	9.0 8.8 8.8 8.9 8.8	7.7 7.9 7.7 7.7 7.5	8.6 8.6 8.1 8.1	7.2 7.2 7.2 7.3 7.3
21 22 23 24 25	8.2 8.2 8.2 8.3 8.2	8.1 8.1 8.0 8.0	8.5 8.5 8.4 8.4	7.9 7.6 7.8 7.8 7.6	7.9 8.0 8.0 8.1 8.2	7.2 7.0 7.1 7.2 7.1	  		8.8 8.6 8.5 8.5	7.5 7.5 7.6 7.5 7.4	7.8 7.9 7.8 7.8 7.9	7.3 7.3 7.3 7.3 7.3
26 27 28 29 30 31	8.2 8.3 8.2 	8.1 8.1 7.8 	8.3 8.1 7.9 8.5 8.4 8.3	7.8 7.6 7.5 7.6 7.9 7.9	8.4 7.5 8.4 8.1 7.5	7.0  7.0 	  		8.3 7.7 7.9 8.0 8.0 8.3	7.3 7.2 7.3 7.4 7.3 7.3	8.0 8.0 8.2 8.1 8.3	7.3 7.3 7.3 7.3 7.3
MONTH											8.6	7.2



PH, IN STANDARD UNITS

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued

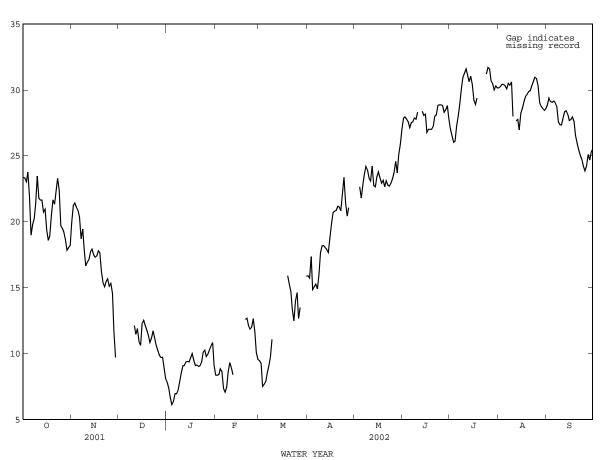
WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 MAX MIN MAX MIN MIN DAY MAX MEAN MEAN MAX MIN MEAN MEAN OCTOBER NOVEMBER DECEMBER JANUARY 20.5 20.8 20.7 21.5 18.8 23.4 23.3 23.1 23.8 22.9 23.7 24.3 23.7 23.9 17.9 19.8 19.4 19.7 19.2 8.0 7.8 7.3 6.6 6.7 7.6 6.7 5.9 5.8 6.1 7.8 7.4 6.7 6.1 6.4 ---26.9 19.9 1 2 3 4 5 21.2 21.4 21.1 20.9 26.9 26.1 27.2 23.4 ---------22.0 6 7 8 22.2 23.7 22.9 16.6 17.3 18.7 23.0 21.5 21.4 18.2 17.1 17.3 20.4 18.7 19.5 7.3 7.2 7.6 6.7 6.8 6.9 7.0 7.0 7.2 19.0 19.8 ---

8 9 10	22.9 23.6 26.7	18.7 20.2 21.8	20.2 21.4 23.5	21.4 20.8 18.4	17.3 15.6 15.5	19.5 17.8 16.7				7.6 8.2 9.1	6.9 7.6 8.1	7.2 7.9 8.5
11 12 13 14 15	23.3 22.4 22.0 21.6 22.3	20.4 21.4 21.4 20.1 19.9	21.8 21.7 21.6 20.7 21.0	17.4 18.1 18.9 19.0 17.9	16.4 16.4 17.0 17.1 17.1	16.9 17.1 17.7 17.9 17.5	12.4 11.8 12.1 11.5 11.3	11.5	12.1 11.5 11.9 10.9 10.6	9.2 9.2 9.8 9.6 9.5	8.9 9.0 9.0 9.3 9.2	9.1 9.1 9.4 9.4 9.4
16 17 18 19 20	21.4 21.5 22.2 23.7 25.0	17.2 16.0 16.1 17.7 19.5	19.4 18.6 18.9 20.5 21.7	17.6 17.7 17.9 18.0 17.1	17.1 17.1 17.6 17.1 15.9	17.3 17.4 17.8 17.7 16.2	12.7 12.8 12.6 11.9	11.7	12.3 12.5 12.1 11.8 11.4	10.1 10.1 9.9 9.3 9.6	9.4 9.9 9.2 8.9	9.7 10.0 9.5 9.1 9.1
21 22 23 24 25	24.4 25.1 26.1 24.5 22.5	19.4 20.4 21.7 20.1 17.4	21.3 22.4 23.3 22.4 19.7	16.0 15.2 16.2 16.2 15.5	15.1 15.0 15.2 15.4 15.0	15.4 15.1 15.5 15.7 15.1	11.1 11.8 11.8 11.5 11.0	10.6	10.9 11.2 11.7 11.2 10.6	9.2 9.2 9.6 10.8 10.5	8.9 9.0 9.2 9.6 9.8	9.0 9.1 9.3 10.1 10.3
26 27 28 29 30 31	22.8 22.2 22.0 21.1 21.5 20.1	17.2 17.7 16.9 16.1 15.5 16.4	19.5 19.2 18.6 17.8 18.0 18.2	15.7 15.5 13.7 10.4	15.0 13.7 9.9 9.3 	14.6 11.7 9.7	10.9 10.1 9.9 10.0 9.5 8.6	10.0 9.8 9.5 9.4 8.5 8.0	10.3 9.9 9.7 9.7 8.9 8.1	10.0 10.2 10.5 10.7 12.2 12.2	10.7	9.8 10 10.3 10.6 10.8 9.1
MONTH	27.2	15.5	20.8									8.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	8.8 8.9 8.7 9.1 9.7	8.1	0 0	8 1	9.3 8.1 7.2 7.3 7.4	9.5 9.3 7.5 7.7 7.9	16.4 16.2 18.3 15.3	15.7 15.2 14.5	15.9 15.7 17.4 14.9 15.1		19.2 20.3	  22.7 21.8
6 7 8	8.0 7.5	6.8 6.8	7.4 7.1	9.2 9.4 10.1 12.5	8.1 8.9	8.6 9.1	15.6 16.2	13.7	15.3 14.9 16.1 17.7	24.2 25.0	22.6	22.7 23.6 24.2
9 10	8.0 10.1 9.9	7.0 7.9 9.0	7.5 8.6 9.3	10.1 12.5 	9.4 10.0 	9.7 11.1 	17.2 19.6 19.6	16.3	16.1 17.7 18.2	25.5 24.6 24.9	23.2 21.0 19.0	23.9 23.3
10	8.0 10.1 9.9	7.0 7.9 9.0	7.5 8.6 9.3 8.9 8.4 	10.1 12.5 	9.4	9.7 11.1    	17.2 19.6	16.3 17.6 17.4 17.3 17.1	18.2		21.0	
10 11 12 13 14	8.0 10.1 9.9 9.3 8.6	7.0 7.9 9.0 8.3 8.3	8.9 8.4 	  	  	    15.9	17.2 19.6 19.6 19.1 18.4 19.2 21.1 21.3 21.0 21.4 21.9	16.3 17.6 17.4 17.3 17.1 17.0 18.2 19.2 20.1 20.5 20.5 20.7	18.2 18.0 17.9 17.7	24.9 24.1 24.7 23.6 23.8 24.8	21.0 19.0 22.1 23.6 21.9 22.1 22.5 22.6 20.5	23.3 23.1 24.2 22.8 22.7
10 11 12 13 14 15 16 17 18 19	8.0 10.1 9.9 9.3 8.6   12.9	7.0 7.9 9.0 8.3 8.3   12.4 12.6 11.9	8.9 8.4  	    16.4	   15.4 14.9	    15.9	17.2 19.6 19.6 19.0 19.1 18.4 19.2 21.1 21.3 21.0 21.4	16.3 17.6 17.4 17.3 17.1 17.0 18.2 19.2 20.1 20.5 20.5 20.7	18.2 18.0 17.9 17.7 18.7 19.9 20.7 20.8 20.9	24.9 24.1 24.7 23.6 23.8 24.8 25.4 24.3 23.9 24.6 23.9	21.0 19.0 22.1 23.6 21.9 22.1 22.5 22.6 20.5 22.3 22.3 21.5	23.3 23.1 24.2 22.8 22.7 23.4 23.8 23.3 22.9 23.1
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.0 10.1 9.9 9.3 8.6  12.9 12.8 12.9 12.8 12.9 12.3	7.0 7.9 9.0 8.3 8.3   12.4 12.6 11.9	8.9 8.4   12.6 12.7 12.1 11.9 12.0	   16.4 15.6 15.2 14.4 13.5	15.4 14.9 14.2 11.9 11.7	    15.9 15.3 14.7 13.4 12.5 14.0	17.2 19.6 19.6 19.0 19.1 18.4 18.4 19.2 21.1 21.3 21.0 21.4 21.9 21.4 21.7 24.8 26.0	16.3 17.6 17.4 17.3 17.1 17.0 18.2 19.2 20.1 20.5 20.5 20.7 20.8 20.2 20.5 21.7	18.2 18.2 18.0 17.9 17.7 18.7 19.9 20.7 20.8 20.9 21.2 21.1 20.8 22.2 23.4	24.9 24.1 24.7 23.6 23.8 24.8 25.4 24.3 23.9 24.6 23.9 24.6 23.9	21.0 19.0 22.1 23.6 21.9 22.1 22.5 22.6 20.5 22.3 21.5 22.4 22.0 22.1 22.5	23.3 23.1 24.2 22.8 22.7 23.4 23.8 23.3 22.9 23.1 22.7 23.1 22.8 22.9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.0 10.1 9.9 9.3 8.6  12.9 12.8 12.9 12.6 11.9 12.3 13.3 12.7 10.7 9.8 	7.0 7.9 9.0 8.3 8.3 	8.9 8.4   12.6 12.7 12.1 11.9 12.0 12.7 11.6 10.1 9.6	   16.4 15.6 15.2 14.4 13.5 15.3 15.1	15.4 14.9 14.2 11.9 11.7 13.1 13.5	   15.9 15.3 14.7 13.4 12.5 14.0 14.6	17.2 19.6 19.6 19.0 19.1 18.4 18.4 19.2 21.1 21.3 21.0 21.4 21.9 21.4 21.7 24.8 26.0 21.9 21.3	16.3 17.6 17.4 17.3 17.1 17.0 18.2 19.2 20.1 20.5 20.5 20.7 20.8 20.2 20.5 21.7 20.9	18.2 18.2 18.0 17.9 17.7 18.7 19.9 20.7 20.8 20.9 21.2 21.1 20.8 22.2 23.4 21.4 20.4 21.1	24.9 24.1 24.7 23.6 23.8 24.8 25.4 24.3 23.9 24.6 23.9 24.2 24.0 23.7 23.8 25.0 24.2 24.0 23.7 23.8 24.2 24.0 23.7 23.8	21.0 19.0 22.1 23.6 21.9 22.1 22.5 22.6 20.5 22.3 22.3 21.5 22.4 22.0 22.1 22.5 22.5 22.3 22.3 21.5	23.3 23.1 24.2 22.8 22.7 23.4 23.8 23.3 22.9 23.1 22.7 23.1 22.8 22.7 23.1 22.8 22.7 23.1 22.8 22.7 23.1 22.8 22.7 23.5 22.7 23.1 22.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 23.1 23.8 23.7 24.6 25.7

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	28.7 29.0 29.1 28.9 28.3	27.1 26.9 27.0 26.8 26.3	27.9 28.0 27.8 27.6 27.1	27.7 27.0 26.7 27.0 29.0	26.4 26.0 24.2 25.4 26.5	27.0 26.5 26.0 26.1 27.3	31.8 31.6 31.6 31.9 31.7	29.0 29.0 29.6 29.7 29.8	30.2 30.3 30.4 30.4	31.1 31.5 30.7 29.8 29.6	28.0 28.2 28.5 28.5 28.6	28.9 29.4 29.1 29.1 29.2
6 7 8 9 10	29.1 28.6 29.0 29.2 29.3	26.5 26.9 27.0 26.7 27.3	27.5 27.6 27.9 27.8 28.3	29.3 30.2 31.7 32.0 32.2	26.9 28.4 29.4 30.2 30.5	28.0 29.0 30.1 31.0 31.3	30.9 31.7 31.0 32.3 30.7	29.4 29.6 29.9 29.4 25.1	30.1 30.5 30.4 30.6 28.0	29.5 29.1 28.5 27.9 28.0	28.6 28.5 26.5 26.9 26.9	29.1 28.8 27.6 27.4 27.4
11 12 13 14 15	29.6 30.3 28.7 29.4	27.7 27.4 27.4	28.4 28.1 28.2	33.2 32.7 31.5 32.8 31.4	30.2 30.3 30.0 29.9 29.7	31.6 31.1 30.6 31.0 30.4	29.8 29.6 28.3 29.6	25.6 25.9 26.3 24.9 27.6	27.7 27.8 27.0 28.2	29.7 29.5 30.2 29.9 28.6	26.8 27.5 27.4 27.3 27.1	27.8 28.4 28.4 28.1 27.7
16 17 18 19 20	28.4 27.8 28.4 28.9 29.2	25.0 26.4 26.4 26.0 26.2	26.8 27.0 27.0 27.0 27.2	29.7 29.7 30.8 	28.9 28.3 28.3 28.4	29.2 28.9 29.4 	30.3 30.5 31.4 31.2 31.5	27.3 28.1 28.0 28.5 28.6	28.6 29.1 29.5 29.7 29.9	28.7 29.3 28.5 27.5 27.3	27.2 27.0 26.9 25.7 25.0	27.7 28.0 27.6 26.6 26.0
21 22 23 24 25	28.7 29.0 30.6 29.9 30.4	27.5 27.2 27.8 28.1 27.8	28.0 28.1 28.8 28.9 28.9	32.9 33.2 33.2	  29.7 30.5	  31.2 31.7	31.7 32.6 33.0 32.8 32.9	28.6 28.9 29.1 29.7 29.8	29.9 30.3 30.6 31.0 30.9	26.6 25.5 25.0 24.5 24.4	24.8 24.6 24.4 23.9 23.5	25.5 25.0 24.7 24.2 23.9
26 27 28 29 30 31	30.3 29.1 29.5 30.0 28.4	28.0 27.7 28.1 28.1 26.8	28.8 28.3 28.5 28.8 27.9	32.7 31.9 31.3 30.7 31.5 31.5	30.7 29.8 29.7 29.3 29.4 28.8	31.6 30.7 30.5 30.0 30.3 30.2	32.3 29.6 29.6 29.2 28.8 30.3	29.5 28.6 28.3 28.2 28.0 27.9	30.3 29.1 28.8 28.6 28.5 28.6	25.1 28.2 26.7 27.6 26.9	23.5 23.9 23.9 23.8 24.5	24.2 25.1 24.7 25.3 25.5
MONTH								24.9		31.5	23.5	27.0



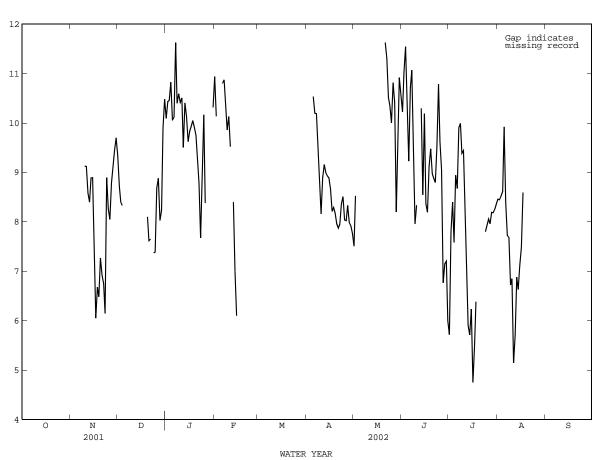
DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	!	N	OVEMBER		DI	ECEMBER			JANUARY	
1 2							9.8 9.0	8.7 8.2	9.3 8.7	10.8 11.7	9.3 9.1	10.1 10.4
3							8.7	8.3	8.4	11.5	9.6	10.5
4 5							8.5	8.2	8.3	11.1 10.7	10.5 9.4	10.8 10.1
6										12.0	8.9	10.1
7										12.0	10.4	11.6
8										11.7	9.3	10.4
9 10				10.0	8.5	9.1				11.6 11.1	8.9 9.7	10.6 10.4
11				9.8	8.5	9.1				11.2	9.3	10.5
12				8.9	8.3	8.6				10.7	8.5	9.5
13				9.1	8.0	8.4				11.4	8.9	10.4
14 15				9.4 9.2	8.3 8.6	8.9 8.9				11.3 10.5	9.4 8.5	10.1 9.6
16				8.6	6.1	7.2				10.5	8.8	9.8
17 18				7.4 7.3	4.9 6.1	6.1 6.7				10.7 10.4	8.7 9.3	9.9 10.0
19				7.4	4.8	6.5				10.7	8.5	9.9
20				7.8	6.4	7.3	8.4	7.6	8.1	10.6	8.5	9.8
21				7.3	6.3	6.9	8.2	7.0	7.6	9.9	8.8	9.3
22				7.4	6.0	6.8	8.2	6.9	7.7	9.2	8.2	8.8
23 24				7.8 9.2	5.6 7.8	6.1 8.9	8.0 8.0	6.4	7.4	8.5 11.0	7.2 7.1	7.7 8.8
25				8.8	7.9	8.3	7.6	7.2	7.4	11.0	8.7	10.2
26				8.8	7 5	0 0	0 1	7 1	0 7	9.0	7 5	8.4
26 27				9.0	7.5 8.4	8.0 8.8	9.1 9.2	7.4 7.7	8.7 8.9	9.0	7.5 	8.4
28				9.7	8.7	9.1	8.7	7.5	8.0			
29				9.8	9.2	9.4	9.8	6.9	8.2			
30 31				10.1	9.3	9.7	10.4 10.9	9.1 10.0	9.9 10.5	11.3	4.4	10.3
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
		FEBRUARY	•		MARCH			APRIL			MAY	
1	11.1	FEBRUARY	10.9		MARCH			APRIL		8.2	MAY 6.9	7.5
		FEBRUARY	•		MARCH			APRIL			MAY	
1 2 3 4	11.1 10.6 	10.6 9.9 	10.9 10.1 	  	MARCH	  		APRIL	  	8.2 9.5 	MAY 6.9 7.5 	7.5 8.5 
1 2 3	11.1 10.6 	10.6 9.9	10.9	 	MARCH	 		APRIL	 	8.2 9.5 	MAY 6.9 7.5	7.5 8.5
1 2 3 4 5	11.1 10.6   11.1	10.6 9.9   10.3	10.9 10.1   10.8	   	MARCH	  	   11.8	APRIL	  10.5	8.2 9.5  	MAY 6.9 7.5	7.5 8.5 
1 2 3 4 5	11.1 10.6   11.1 11.1	10.6 9.9   10.3 10.8	10.9 10.1  10.8 10.9	   	MARCH	    	   11.8 10.5 10.8	APRIL 9.9 9.9 9.3	  10.5 10.2 10.2	8.2 9.5  	MAY 6.9 7.5	7.5 8.5  
1 2 3 4 5	11.1 10.6   11.1 11.1 10.8	10.6 9.9   10.3 10.8 10.0	10.9 10.1   10.8 10.9 10.3	   	MARCH	  	  11.8 10.5 10.8 10.0	APRIL 9.9 9.9 9.3 8.4	  10.5 10.2 10.2 9.4	8.2 9.5  	MAY 6.9 7.5	7.5 8.5 
1 2 3 4 5	11.1 10.6   11.1 11.1	10.6 9.9   10.3 10.8	10.9 10.1  10.8 10.9	  	MARCH		   11.8 10.5 10.8	APRIL 9.9 9.9 9.3	  10.5 10.2 10.2	8.2 9.5  	MAY 6.9 7.5	7.5 8.5  
1 2 3 4 5 6 7 8 9	11.1 10.6   11.1 11.1 10.8 10.2	10.6 9.9   10.3 10.8 10.0 9.5	10.9 10.1   10.8 10.9 10.3 9.9	     	MARCH	   	  11.8 10.5 10.8 10.0 8.9	APRIL 9.9 9.9 9.3 8.4 8.4	  10.5 10.2 10.2 9.4 8.7	8.2 9.5  	MAY 6.9 7.5	7.5 8.5  
1 2 3 4 5 6 7 8 9 10	11.1 10.6   11.1 11.1 10.8 10.2 10.3	10.6 9.9   10.3 10.8 10.0 9.5 9.9	10.9 10.1  10.8 10.9 10.3 9.9 10.1		MARCH		  11.8 10.5 10.8 10.0 8.9 8.5	APRIL 9.9 9.9 9.9 9.3 8.4 8.4 7.9 8.2 8.9	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2	8.2 9.5   	MAY 6.9 7.5	7.5 8.5   
1 2 3 4 5 6 7 8 9 10	11.1 10.6  11.1 11.1 10.8 10.2 10.3	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8	10.9 10.1  10.8 10.9 10.3 9.9 10.1	      	MARCH		  11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2	APRIL 9.9 9.3 8.4 7.9 8.2 8.9 8.7	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0	8.2 9.5    	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2	8.2 9.5   	MAY 6.9 7.5	7.5 8.5   
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.1 10.6  11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1	       	MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6	10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9	8.2 9.5      	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3	10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9	8.2 9.5     	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.1 10.6  11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1	       	MARCH		  11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2	8.2 9.5      	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 8.3 7.6 8.7 7.8	10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.9 8.7 8.2 8.3 8.3	8.2 9.5      	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.1 10.6  11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		  11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 8.3	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2	8.2 9.5	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9  10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.1 8.6 8.5 8.6 8.3	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 8.3 7.6 7.6	10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0 7.9	8.2 9.5         12.8	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	11.1 10.6  11.1 11.1 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.1 8.6 8.5 8.6 8.3	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.6 8.0 7.6 8.0 7.6 7.6	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0	8.2 9.5        12.8 13.3	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9  10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		  11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.1 8.6 8.5 8.6 8.3	APRIL 9.9 9.9 9.3 8.4 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 8.3 7.6 7.8 7.6 7.3	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.3 8.2 8.0	8.2 9.5        12.8 13.3 12.0	MAY 6.9 7.5	7.5 8.5        11.6 11.3 10.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9   10.3 10.8 10.0 9.5 9.9 9.3  7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.1 8.6 8.5 8.6 8.3	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.6 8.0 7.6 8.0 7.6 7.6	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0	8.2 9.5        12.8 13.3	MAY 6.9 7.5	7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9 10.3 10.8 10.0 9.5 9.9 9.3 7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 6 7.5 7.6 7.3	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0 7.9 8.0 8.5 8.0	8.2 9.5        12.8 13.3 12.0 11.6 12.0	MAY 6.9 7.5 10.3 10.0 9.2 9.3 8.2 8.5	7.5 8.5      11.6 11.3 10.5 10.4 10.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	11.1 10.6  11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9 10.3 10.8 10.0 9.5 9.9 9.3 7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.2 9.1 8.6 8.3 8.1 8.8 9.3 9.5 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.6 8.3 7.6 8.3 7.6 7.3 7.5	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0 7.9 8.4 8.5 8.0	8.2 9.5        12.8 13.3 12.0 11.6 12.0	MAY 6.9 7.5	7.5 8.5      11.6 11.3 10.5 10.4 10.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9 10.3 10.8 10.0 9.5 9.9 9.3 7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.3 9.9 10.1 9.5  8.4 7.0 6.1		MARCH		  11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.1 8.6 8.5 8.3 8.1 8.8 9.3 9.5 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.6 8.3 7.6 8.3 7.6 7.5 7.5 7.5	  10.5 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0 7.9 8.0 8.4 8.5 8.0	8.2 9.5       12.8 13.3 12.0 11.6 12.0	MAY 6.9 7.5 10.3 10.0 9.2 9.3 8.2 8.5 8.7 7.1	7.5 8.5      11.6 11.3 10.5 10.4 10.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	11.1 10.6  11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9 10.3 10.8 10.0 9.5 9.9 9.3 7.8 6.5 5.4	10.9 10.1  10.8 10.9 10.1 9.5  8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.2 9.1 8.6 8.3 8.1 8.8 9.3 9.5 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.6 8.3 7.6 8.3 7.6 7.3 7.5	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.3 8.2 8.0 7.9 8.4 8.5 8.0	8.2 9.5        12.8 13.3 12.0 11.6 12.0	MAY 6.9 7.5	7.5 8.5      11.6 11.3 10.5 10.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11.1 10.6   11.1 11.1 10.8 10.2 10.3 9.9  8.7 7.8 6.6	10.6 9.9 10.3 10.8 10.0 9.5 9.9 9.3 7.8 6.5 5.4	10.9 10.1 10.8 10.9 10.3 9.9 10.1  9.5 8.4 7.0 6.1		MARCH		11.8 10.5 10.8 10.0 8.9 8.5 9.4 9.3 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	APRIL 9.9 9.9 9.3 8.4 7.9 8.2 8.9 8.7 8.4 8.6 8.3 7.6 6 7.5 7.6 7.3 7.5 7.5 7.5 7.5 7.5	10.5 10.2 10.2 10.2 9.4 8.7 8.2 8.9 9.2 9.0 8.9 8.9 8.7 8.2 8.0 7.9 8.4 8.5 8.0 8.3 8.0 7.9	8.2 9.5        12.8 13.3 12.0 11.6 12.0 11.6 11.6 9.4 11.4	MAY 6.9 7.5 10.3 10.0 9.2 9.3 8.2 8.5 8.7 7.1 7.6	7.5 8.5      11.6 11.3 10.5 10.4 10.0 10.8 10.4 8.2 9.2

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX--Continued OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	12.7 13.3 14.6 13.8 11.7	8.0 7.9 9.0 6.9 6.5	10.2 11.0 11.5 10.5 9.2	8.3 9.8 9.1 9.4 12.0	4.8 5.4 7.6 6.8 5.9	5.7 7.8 8.4 7.6 8.9	9.2 9.2 9.3 9.1 13.4	8.0 8.1 8.2 8.3 8.5	8.5 8.4 8.5 8.6 9.9	  		  
6 7 8 9 10	13.9 14.4 13.5 12.5 10.2	8.1 9.1 5.2 4.2 5.9	10.7 11.1 9.6 8.0 8.3	11.2 13.1 13.1 13.6 15.3	6.7 7.9 6.8 5.7 5.1	8.7 9.9 10 9.4 9.4	11.3 12.0 10.1 12.5 10.3	5.3 3.6 5.3 2.8 2.7	8.4 7.7 7.7 6.7 6.8	  		  
11 12 13 14 15	12.7 11.9 9.8 13.4	9.0 7.3 7.0	10.3 8.5 10.2	11.3 10.6 8.4 9.3 10.2	4.7 4.9 4.7 4.5 4.0	8.3 6.8 5.9 5.7 6.2	6.6 8.0 10.9 9.2 10.8	3.3 4.2 3.9 4.4 5.2	5.1 5.7 6.9 6.6 7.1	  		  
16 17 18 19 20	12.9 9.8 12.6 14.8 13.8	6.8 6.7 7.0 6.4 6.6	8.4 8.2 9.1 9.5 9.0	6.8 10.3 8.3 	3.8 3.7 4.1 	4.7 5.5 6.4 	10.7 10.9 	4.3 6.0 	7.5 8.6 	  		  
21 22 23 24 25	11.1 11.9 14.9 14.3 13.4	6.9 6.3 6.2 7.9 6.6	8.9 8.8 9.5 10.8 9.6	  8.3 8.4	  7.3 7.4	  7.8 7.9	  	  	  	  		  
26 27 28 29 30 31	13.2 7.8 11.6 10.5 10.6	6.7 5.9 5.9 4.8 4.1	9.0 6.8 7.1 7.2 6.0	8.5 8.7 8.7 8.7 9.1 9.0	7.6 7.4 7.7 7.6 7.8 7.9	8.1 8.0 8.2 8.2 8.3 8.4	   		  	   		   
MONTH												



DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER

#### 08048970 Village Creek at Everman, TX

LOCATION.--Lat 32°36'12", long 97°15'53", Tarrant County, Hydrologic Unit 12030102, at center of channel on downstream side of bridge on Rendon Road (Tarrant County Road 1015), 1.4 mi downstream from Deer Creek and 1.8 mi southeast of Everman High School.

DRAINAGE AREA. -- 84.5 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1989 to current year.

REVISED RECORDS.--WRD-TX-00-2: Maximum discharge for period of record, 11,4000 ft<sup>3</sup>/s at 21.96 ft: Peak discharge WY 2000, 10,600 ft<sup>3</sup>/s.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 589.93 ft above NGVD of 1929 (Tarrant County Public Works Department reference mark). Satellite telemeter at station.

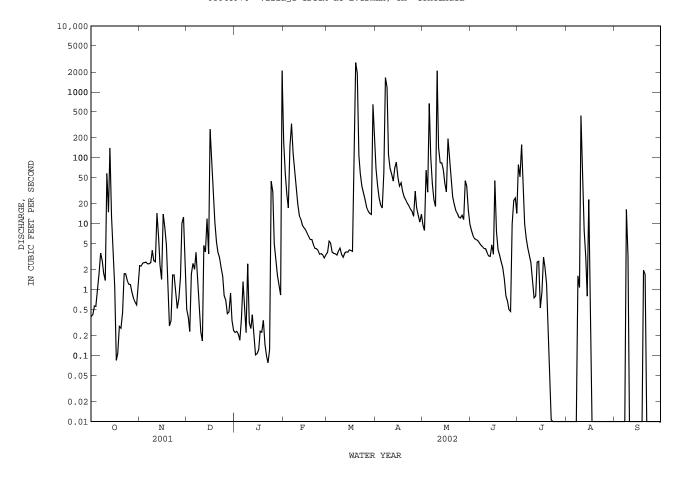
REMARKS.--No estimated daily discharges. Records fair. No flow at times. No known regulation or diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since about 1930, 27.37 ft, date uncertain, but may be same date, Mar 27, 1977, as date of maximum stage at discontinued downstream station, Village Creek at Kennedale (station 08048980). Flood of May 18, 1989, may have equalled, or slightly exceeded, the indicated known maximum stage.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES JUI, DAY ОСТ NOV DEC JAN FEB MΛD APR MAY .TITN AHG SEP 0.39 2.3 0.50 7.8 79 0.00 0.00 2 0.42 2.3 0.38 0.23 58 28 5.5 5.1 38 7.9 6.6 52 0.00 0.00 3 24 65 158 0.00 2.6 19 30 5 1.0 2.6 2.5 0.36 146 3.5 17 668 5.6 10 0.00 0.00 6 7 2.5 105 0.00 0.00 2.5 3.7 1.3 0.47 3.4 41 23 4.8 4.3 3.6 117 1650 0.00 0.00 2.8 8 1170 1.6 62 16 1.8 35 10 1 4 2.7 0 23 0.31 20 3.4 69 2090 4.2 1.3 435 0.00 58 2.6 0.17 0.26 13 144 3.7 0.75 92 0.00 12 15 14 4.7 3.7 0.42 12 3.6 3.7 44 84 3.3 3.2 0.80 2.6 8.0 0.00 13 6.4 9.5 84 3.1 141 69 0.79 13 2.4 12 8.7 3.7 86 65 4.8 2.7 0.00 3.5 15 3 5 1 4 0 11 8 1 4 0 51 41 3 4 0.53 23 0 00 16 14 271 0.12 7.2 3.9 37 30 45 0.92 1.7 0.00 8 8 0.23 6.4 5.8 7 5 3.1 0.00 17 0.08 107 3 8 42 195 0 00 0.11 4.8 126 31 99 4.0 0.00 0.00 18 32 19 0.28 10 0.34 5.8 2790 25 47 3.3 0.00 2.0 0.28 5.3 0.28 20 0.26 0.15 4.8 1920 23 26 2.6 0.00 1.7 21 0.44 0.34 3.7 0.10 109 21 20 2.2 0.05 0.00 0.00 1.7 1.7 1.7 4.2 22 3.1 0.08 57 19 16 1.5 0.01 0.00 0.00 23 2.2 0.12 3.9 37 17 14 0.81 0.00 0.00 0.00 24 0 96 1.6 44 3.4 29 15 13 0.66 0 00 0.00 0.00 25 1.2 0.81 0.52 31 3.5 23 13 12 0.50 0.00 0.00 0.00 26 1 2 0.74 0.69 5 0 3 3 1.8 31 13 0.46 0 00 0 00 0.00 0.92 27 2.8 3.0 17 0.00 1.5 0.43 16 12 9.9 0.00 0.00 28 0.75 10 0.46 1.6 3.4 13 45 22 0.00 0.00 0.00 29 0.65 13 0.89 1.2 ---14 11 37 24 0.00 0.00 0.00 2.7 0.83 16 30 0.59 0.34 14 14 0.00 0.00 0.00 644 0.24 2100 9.8 0.00 0.00 TOTAL 258.31 115.94 476.90 2194.88 1095.2 6096.7 3863 4080.1 211.43 387.54 566.29 22.90 12.50 18.27 MEAN 8.333 3.865 15.38 70.80 39.11 196.7 128.8 131.6 7.048 0.763 328 MAX 141 14 271 2100 2790 1650 2090 45 158 435 16 0.28 0.46 0.08 0.17 0.08 3.0 11 0.00 0.00 0.00 MIN AC-FT 512 230 946 4350 2170 12090 7660 8090 769 1120 419 45 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY) 7.384 30.08 16.15 42.98 28.01 64.01 69.13 57.07 71.37 45.14 5.706 4.439 MEAN 240 52.1 367 117 165 195 233 339 296 14.3 MAX 15.5 1992 1992 1992 1997 1990 (WY) 1995 2002 1990 2.70 2000 1993 2001 2001 0.59 0.68 0.34 0.72 0.000 0.000 MTN 0.83 1.32 1.13 0.19 0.000 1996 1996 1998 1998 2000 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002 ANNUAL TOTAL 13234 69 19369 19 ANNUAL MEAN 36.65 36.26 53.07 HIGHEST ANNUAL MEAN 92.6 LOWEST ANNUAL MEAN HIGHEST DAILY MEAN 1.37 1996 2280 2790 Mar 19 7330 Jun 4 2000 Feb 16 0.00 Jul 21 0.00 Jul 23 0.00 Aug 18 LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMIM 0 00 Jul 21 0.00 Jul 23 0.00 Aug 25 1990 MAXIMUM PEAK FLOW Dec 20 1991 8830 Mar 19 c11400 MAXIMUM PEAK STAGE 19.74 Mar 19 21.96 Dec 20 1991 38420 26550 26250 ANNIIAL RINOFF (AC-FT) 10 PERCENT EXCEEDS 47 75 60 50 PERCENT EXCEEDS 5.6 3.2 3.4 90 PERCENT EXCEEDS 0.11 0.00 0.00

c From rating curve extended above 7,700 ft<sup>3</sup>/s on basis of area-velocity study.

# 08048970 Village Creek at Everman, TX--Continued



#### 08048970 Village Creek at Everman, TX--Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1989 to current year. BIOCHEMICAL DATA: Oct. 1989 to current year.

PERIOD OF DAILY RECORD. --

RIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Oct. 1989 to Sept. 1990. pH: Oct. 1989 to Sept. 1990. WATER TEMPERATURE: Oct. 1989 to Sept. 1990. DISSOLVED OXYGEN: Oct. 1989 to Sept. 1990.

INSTRUMENTATION. -- Water-quality monitor Oct. 1989 to Sept. 1990.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,000 microsiemens/cm, on several days during Jan. and May 1990; minimum, 129
microsiemens/cm, May 3, 1990.
pH: Maximum, 9.1 units, Jan. 13, 1990; minimum, 7.0 units, Nov. 22, 1989.
WATER TEMPERATURE: Maximum, 34.5°C, July 11, 1990; minimum, 0.5°C, Dec. 22, 1989.
DISSOLVED OXYGEN: Maximum, 20.8 mg/L, Feb. 25, 1990; minimum, 2.4 mg/L, Nov. 8, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				~ -									
Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
NOV 08	0910	2.4	614	8.0	16.0	6.7	69	<2.0	190	4	59.6	9.58	53.5
FEB 13	0940	9.7	655	8.2	7.0	12.6	105	<2.0	250	30	83.2	9.39	47.7
MAR 21	0930	110	393	8.1	12.5	9.4	89	5.3	150	22	49.6	5.60	23.4
MAY 07	1015	41	500	8.0	23.5	7.2	87	4.2	170	30	57.3	7.51	33.3
JUN 04	0930	6.0	795	8.0	25.0	6.4	80	2.5	250	49	76.1	15.2	66.8
AUG													
28	1320	E1.0	552	8.1	29.5	7.1	94	3.3	130	28	38.7	7.87	56.8
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV													
08 FEB	2	37	4.63	1	222	184	56.4	47.7	. 4	6.2		348	
13 MAR	1	29	4.45	2	259	216	78.0	38.5	.3	8.2		407	
21 MAY	.8	25	4.81	<1	152	127	37.5	17.1	.3	9.86	252	227	50
07	1	29	5.22	2	170	144	51.2	26.4	.3	9.54	291	280	32
JUN 04	2	36	3.31	1	246	204	111	55.9	. 4	5.98	512	458	27
AUG 28	2	48	5.31	1	120	101	61.8	58.0	. 4	5.90	308	295	<10
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/LAS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)
NOV													
08 FEB		<.008	E.04	<.04		.28			<.06	.02	.067		
13 MAR	1.66	.009	1.67	<.04		.35			.100	.09	.267		
21 MAY	.76	.020	.78	.07	.65	.72			.174	.14	.442	10.0	3
07 JUN	.60	.021	.62	E.03		.53			.11	.10	.297		2
04 AUG	.31	.009	.32	<.04		.29			<.06	<.02		5.4	
28		<.008	<.05	<.04		.43	.62	E.05	E.04	<.02		6.8	

# 08048970 Village Creek at Everman, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)
NOV 08													
FEB 13 MAR													
21	.19	2n	46	<.06	<.04	<.8	.33	2.4	26	E.04	5.9	<.01	1.0
MAY 07	.20	E2	52	<.06	<.04	<.8	.35	2.0	12	E.04	2.1	<.01	1.1
JUN 04									<10		E.9n		
AUG 28									56		25.7	<.01	
			Da	ite	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)				
			NOV 0 FEB	8									
				3									
				1	1.31	E1	<1	2	.81				
				_	0 10	•	-	-	0.0				

2.19 <2 <1 3

--

.80

--

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report:  $\ensuremath{\text{n}}$  -- Below the NDV

MAY 07... JUN 04... AUG 28...

#### 08049200 Lake Arlington at Arlington, TX

LOCATION.--Lat 32°42′58", long 97°11′32", Tarrant County, Hydrologic Unit 12030102, near western boundary of Arlington, 1.5 mi upstream from the Texas and Pacific Railway Co. bridge and 7.0 mi upstream from mouth.

DRAINAGE AREA. -- 143 mi<sup>2</sup>.

PERIOD OF RECORD.--CHEMICAL DATA: Jan. 1964 to June 2002 (discountinued). BIOCHEMICAL DATA: Jan. 1964 to June 2002 (discountinued).

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

# 324304097113601 -- Lk Arlington Site AC

				3243	040971136	01 FK	Arlington	Site AC					
Date	Time	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
FEB 07 07 07 07 07	1321 1326 1332 1338 1344 1351	39100    	.41    	1.00 10.0 20.0 30.0 40.0 45.0	285 283 279 279 260 250	8.2 8.0 8.0 8.0 7.8 7.7	12.0 11.0 10.5 10.0 10.0	9.8 9.3 9.2 9.0 6.7 6.0	92 85 83 81 60 54	100     91	11    9	35.4    31.7	3.44    2.95
28 28 28 28 28 JUN	1248 1253 1257 1302 1306	38900    	.55   	1.00 10.0 20.0 30.0 44.0	270 270 270 270 270	7.9 7.9 7.8 7.8 7.7	17.0 17.0 16.5 16.0 15.5	10.8 10.8 10.5 9.9 9.0	114 114 110 103 92	100    110	13   14	36.2    36.6	3.38    3.41
25 25 25 25 25	1043 1048 1054 1100 1105	36900    	1.46    	1.00 10.0 20.0 30.0 42.0	295 292 317 332 341	8.5 8.6 7.4 7.4 7.5	31.5 30.5 27.5 24.0 22.5	8.6 8.8 .8 2.0	119 120 10 24 2	100    130	11   	34.9    45.3	4.30    4.34
				3243	040971136	01 Lk	Arlington	Site AC					
Date	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
FEB 07 07 07 07 07	13.2    11.2	.6     .5	21    20	3.91    3.76	    <1	    100	91    83	28.5    23.9	10.8    10.5	. 2     . 2	3.8    5.0	155    140	    .34
MAR 28 28 28 28 28 JUN	13.2   13.3	.6    .6	21    21	4.05    4.06	<1    <1	111    112	92    92	25.9    26.0	10.0    10.1	.2    .2	4.3   4.4	153    155	.27    .27
25													

# 08049200 Lake Arlington at Arlington, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

# 324304097113601 -- Lk Arlington Site AC

						_				
Date	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB										
07	E.006	.26	E.03		.36	< .06	E.01		<10	E1.8b
07										
07										
07										
07										
07	.009	.35	.16	.45	.61	.06	.04	.132	E10	8.6
MAR										
28	.015	.29	.08	.43	.51	E.05	.05	.156	E8	E1.5n
28										
28										
28										
28	.017	.29	.13	.41	.54	E.05	.05	.150	E10	3.4
JUN										
25	<.008	<.05	<.04		.34	<.06	<.02		<10	<2.0
25	<.008	<.05	<.04		.32	<.06	<.02		<10	7.5
25	<.008	E.04	<.04		.32	<.06	<.02		35	37.3
25										
25	<.008	<.05	.91	.50	1.4	.35	.29	.892	1900	1620

# 324320097121101 -- Lk Arlington Site AL

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB							
07	1359	1.00	284	8.2	12.0	10.0	94
07	1401	10.0	285	8.0	11.0	9.3	85
07	1403	20.0	280	8.0	10.5	9.0	81
07	1405	34.0	280	8.0	10.0	8.8	79
MAR							
28	1318	1.00	270	8.0	17.5	9.4	101
28	1322	10.0	270	7.9	17.0	8.6	91
28	1327	30.0	270	7.9	16.5	8.4	88
28	1332	30.0	270	7.8	16.0	8.3	86
28	1338	36.0	271	7.7	15.5	9.0	92
JUN							
25	1114	1.00	295	8.6	31.0	7.5	103
25	1116	10.0	292	8.5	30.5	7.5	102
25	1119	20.0	318	7.5	27.5	. 3	4
25	1121	31.0	329	7.5	24.5	. 2	2

# 324253097121801 -- Lk Arlington Site BC

Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB								
07	1414	.30	1.00	282	8.2	12.0	10.1	95
07	1416		10.0	282	8.2	12.0	10.0	94
07	1419		20.0	279	8.0	10.5	9.0	81
07	1421		30.0	251	7.8	10.0	7.3	65
07	1425		38.0	271	7.8	9.5	7.9	70
MAR								
28	1353	.49	1.00	271	7.8	17.0	8.1	86
28	1355		10.0	270	7.8	17.0	8.0	85
28	1358		20.0	270	7.8	16.0	7.8	81
28	1400		30.0	270	7.8	15.5	7.6	78
28	1402		39.0	271	7.7	15.5	6.9	71
JUN								
25	1130	.98	1.00	295	8.6	31.5	7.3	101
25	1132		10.0	297	8.3	30.0	6.4	86
25	1134		20.0	312	7.5	28.0	1.4	18
25	1137		30.0	337	7.4	24.0	.2	2
25	1140		37.0	337	7.5	23.0	.2	2

### 08049200 Lake Arlington at Arlington, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324301097123301 -- Lk Arlington Site BL

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB							
07	1435	1.00	283	8.2	12.5	10.2	97
07	1437	10.0	278	8.0	10.5	9.1	82
07	1440	20.0	278	8.0	10.0	8.9	80
07	1443	33.0	267	7.9	10.0	8.2	73
MAR							
28	1415	1.00	270	7.8	16.5	9.0	94
28	1418	10.0	270	7.8	16.5	10.4	109
28	1421	20.0	270	7.8	16.0	10.4	108
28	1424	29.0	271	7.7	15.5	9.5	97
JUN							
25	1151	1.00	293	8.6	31.5	7.7	106
25	1155	10.0	295	8.5	30.5	7.0	95
25	1159	20.0	312	7.5	28.0	1.6	21
25	1202	30.0	333	7.4	25.5	. 2	2

### 324257097130301 -- Lk Arlington Site CC

Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB								
07	1452	.24	1.00	278	8.0	14.5	9.0	89
07	1454		10.0	277	8.0	13.5	9.0	87
07	1456		25.0	278	8.0	13.5	9.0	87
MAR								
28	1436	.40	1.00	271	7.8	17.5	9.3	100
28	1439		10.0	271	7.8	17.0	9.2	97
28	1442		20.0	271	7.8	17.0	9.2	97
JUN								
25	1213	.85	1.00	296	8.4	32.0	6.5	91
25	1216		10.0	297	8.4	32.0	6.4	89
25	1219		21.0	296	8.4	32.0	6.4	89

# 324228097130301 -- Lk Arlington Site DC

					PH			OXYGEN,
		TRANS-		SPE-	WATER			DIS-
		PAR-		CIFIC	WHOLE			SOLVED
		ENCY	SAM-	CON-	FIELD	TEMPER-	OXYGEN,	(PER-
		(SECCHI	PLING	DUCT-	(STAND-	ATURE	DIS-	CENT
Date	Time	DISK)	DEPTH	ANCE	ARD	WATER	SOLVED	SATUR-
		(M)	(FEET)	(US/CM)	UNITS)	(DEG C)	(MG/L)	ATION)
		(00078)	(00003)	(00095)	(00400)	(00010)	(00300)	(00301)
FEB								
07	1504	.27	1.00	280	8.0	12.5	9.0	85
07	1506		10.0	281	8.0	10.5	9.1	82
07	1508		22.0	278	8.0	10.5	8.8	80
MAR								
28	1457	.40	1.00	271	7.8	17.0	10.4	110
28	1500		10.0	270	7.7	15.5	9.5	97
28	1503		21.0	271	7.7	15.5	9.4	96
JUN								
25	1229	1.07	1.00	294	8.6	31.5	7.6	105
25	1232		10.0	297	8.4	30.5	6.5	88
25	1235		20.0	304	7.7	29.0	3.5	46

# 08049200 Lake Arlington at Arlington, TX--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

# 324143097132201 -- Lk Arlington Site EC

							5						
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO
FEB 07 07 07 MAR	1521 1526 1531 1536	1.00 10.0 20.0 26.0	288 288 285 285	8.3 8.1 8.0 8.0	13.5 10.5 9.0 9.0	10.0 9.8 9.7 9.9	97 89 85 86	100   100	14   11	35.8   34.8	3.49   3.53	13.3   14.1	.6   .6
28 28 28 JUN	1519 1524 1528	1.00 10.0 25.0	274 272 277	7.9 7.8 7.7	16.5 15.5 15.0	9.2 8.7 7.8	96 89 79	110  110	13  13	36.6  36.9	3.46  3.50	13.3  13.2	.6  .6
25 25 25	1250 1258 1305	1.00 10.0 23.0	292 290 307	8.7 8.5 7.4	31.5 30.0 28.0	6.9 7.0 .2	95 94 3	100  110	12  8	34.9  38.2	4.30  4.16	16.0  15.3	.7  .6
				3241	.430971322	01 Lk	Arlington	Site EC					
Date	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 07 07 07	21   22	3.94   3.88	1   <1	108   110	90   92	28.7   28.9	10.9   12.9	.2   .2	3.6   4.7	155   159	   .37	E.007   .011	.25   .38
MAR 28 28	21	4.14	<1	113	84	26.4	10.3	.2	4.8	156	.31	.013	.33
28 JUN 25	20 24	4.18 4.27	<1 4	114 106	99 94	26.4 25.8	10.2 15.1	.2	5.1 1.3	158 158	.30	.032	.33
25 25	22	4.11	<1	128	105	27.0	13.3	.3	3.0	 169		<.008 E.004	<.05 <.05

# 324143097132201 -- Lk Arlington Site EC

	NITRO-	NITRO-	NITRO-		ORTHO-	PHOS-		
	GEN,	GEN,	GEN,AM-	PHOS-	PHOS-	PHATE,		MANGA-
	AMMONIA	ORGANIC	MONIA +	PHORUS	PHATE,	ORTHO,	IRON,	NESE,
	DIS-	DIS-	ORGANIC	DIS-	DIS-	DIS-	DIS-	DIS-
	SOLVED	SOLVED	DIS.	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
Date	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(UG/L	(UG/L
	AS N)	AS N)	AS N)	AS P)	AS P)	AS PO4)	AS FE)	AS MN)
	(00608)	(00607)	(00623)	(00666)	(00671)	(00660)	(01046)	(01056)
FEB								
07	.04	.36	.40	< .06	.02	.064	50	8.6
07								
07								
07	E.03		.41	E.04	.04	.126	<10	3.4
MAR								
28	.07	.42	.49	.07	.06	.172	11	E1.8b
28								
28	.13	.44	.56	E.05	.06	.181	11	E2.1b
JUN								
25	<.04		.34	<.06	<.02		<10	E.8
25	<.04		.33	<.06	<.02		<10	13.3
25	.11	.34	.45	<.06	<.02		11	430

# 08049200 Lake Arlington at Arlington, TX--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324133097130601 -- Lk Arlington Site EL

		Da	te	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)			
		0	7 7 7	1541 1543 1545	1.00 10.0 20.0	287 287 286	8.3 8.1 7.9	13.0 10.5 8.5	10.4 9.8 9.5	100 89 82			
		2	8 8 8	1533 1536 1540	1.00 10.0 19.0	275 276 275	7.9 7.9 7.9	16.5 16.5 16.5	9.9 9.9 9.1	104 104 95			
		2	5 5 5	1316 1319 1321	1.00 10.0 17.0	295 297 313	8.6 8.4 7.4	32.0 30.0 28.0	6.7 5.2 .5	93 70 7			
				3240	)410971346	01 Lk	Arlington	Site FC					
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO
FEB 07 07	1556 1601 1607	1.00 10.0 16.0	289 282 281	8.4 7.9 7.8	13.0 8.0 7.0	10.6 10.2 10.5	102 87 87	 	 	  	  	 	  
MAR 28 28	1558 1603 1608	1.00 10.0 15.0	281 283 283	7.9 7.8 7.8	16.5 15.5 15.5	10.1 9.6 9.7	106 99 100	110  110	16  14	38.3  38.0	3.65  3.64	13.7  13.7	.6  .6
JUN 25 25	1337 1344	1.00 14.0	294 266	8.6 7.7	32.0 28.5	10.4 7.1	145 93	110 97	11 12	35.0 32.8	4.30 3.55	16.0 13.3	.7 .6
				3240	)410971346	01 Lk	Arlington	Site FC					
Date	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
FEB 07 07 07	 	 	1  <1	109  E117	92  97	 	 	 	 		  .66	E.005  .021	. 24  . 68
MAR 28	20	4.21	<1	116	96	27.1	10.5	.2	5.0	161	.32	.017	.34
28 28	21	4.25	<1	 116	 96	27.3	10.6	.2	5.1	162	.33	.017	.35
JUN 25 25	24 22	4.31 3.98	3 <1	109 E102	94 85	29.1 24.3	13.6 12.3	.2	1.3 2.5	160 145	.22	<.008 .019	<.05 .24

### 08049200 Lake Arlington at Arlington, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324041097134601 -- Lk Arlington Site FC

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB								
07	<.04		.35	E.03	E.01			
07								
07	.07	.49	.56	.11	.10	.319		
MAR								
28	.07	.43	.50	E.06	.06	.169	14	3.2
28								
28	.08	.45	.53	E.05	.06	.172	13	4.8
JUN								
25	<.04		.34	<.06	<.02		<10	E1.4
25	.07	.39	.46	<.06	<.02		<10	34.4

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report: b -- Value was extrapolated below n -- Below the NDV

#### 08049500 West Fork Trinity River at Grand Prairie, TX

LOCATION.--Lat 32°45′46", long 96°59′42", Dallas County, Hydrologic Unit 12030102, on left bank at upstream side of bridge on Belt Line Road, 1.3 mi northeast of Grand Prairie, 3.7 mi upstream from Mountain Creek, and at mile 514.6.

DRAINAGE AREA. -- 3,065 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Apr. 1925 to current year.

REVISED RECORDS. -- WSP 628: 1925. WSP 1922: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 405.42 ft above NGVD of 1929. Prior to Dec. 6, 1933, nonrecording gage at bridge on old channel 2,500 ft southeast of present site at datum 7.56 ft higher. Dec. 6, 1933, to May 24, 1956, water-stage recorder at site 440 ft downstream from site of nonrecording gage at datum 7.56 ft higher than present datum. May 25, 1956, to Apr. 18, 1957, nonrecording gage at site 1.5 mi downstream at different datum. Apr. 19 to Aug. 13, 1957, nonrecording gage on bridge at present site and at datum 5.00 ft higher than present datum. Aug. 14, 1957 to Sept. 30, 1982, water-stage recorder at present site and at datum 5.00 ft higher than present datum. Satellite telemeter at station.

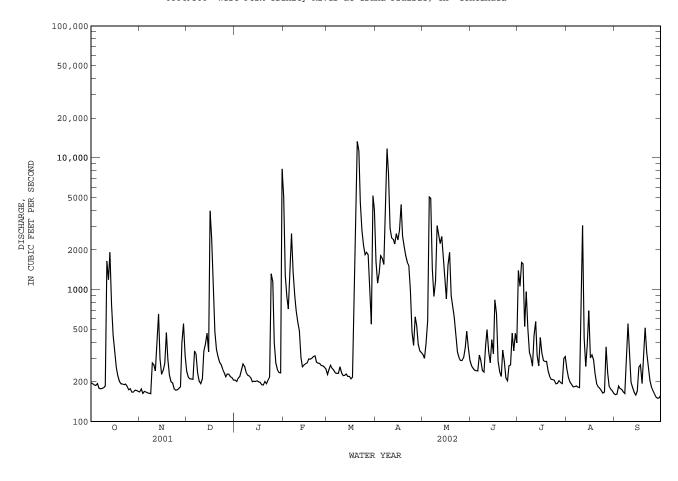
REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Apr. 1925, at least 10% of contributing drainage area has been regulated. The city of Fort Worth discharges wastewater effluent into the river upstream from this station. There are many diversions upstream from station for municipal, industrial, and other uses. The river channel at this station was relocated and rectified in 1956.

DISCULATOR FROM DOD, CUIDIO FEET DED CECOMO, MATER VEAD COTODED 2001 TO CEDTEMBER 2002

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 30.6 ft in May 1908 (former site and datum), from information by local resident. Flood in Apr. 1922 reached a stage of 29.0 ft (former site and datum), from floodmarks.

		DISCHARGE	FROM DCP,	CUBIC FE		COND, WA' Y MEAN V		OCTOBER 200	1 TO SE	PTEMBER 200	2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	196 193 189 188 194	176 163 169	240 217 211 210 209	206 201 213 220 245	5100 1280 883 714 1480	227 249 267 253 245	1630 1120 1340 1810 1730	321 301 393 582 5040	265 254 245 243 242	1400 1060 1610 1570 525	250 215 198 191 183	160 161 186 177 175
6 7 8 9 10	178 177 178 180 186	164 162 278	343 326 234 202 194	273 261 237 225 221	2660 1360 906 693 569	234 232 232 260 234	1550 4880 11700 7630 2920	4930 1430 887 1160 3060	319 290 244 237 375	965 509 333 307 263	184 186 182 180 1020	168 163 278 552 345
11 12 13 14 15	1650 1190 1920 779 452	407 652 299	211 341 388 467 337	214 200 202 201 203	489 306 260 268 274	223 224 229 220 220	2470 2410 2220 2660 2380	2640 2240 2530 1780 1210	499 340 279 417 326	452 574 318 264 434	3070 428 261 375 691	198 180 166 159 170
16 17 18 19 20	344 257 223 202 193	277 471 297	3960 2430 936 479 352	200 198 190 189 201	278 298 296 301 311	211 217 896 4730 13300	2840 4420 2550 2130 1810	851 1540 1920 898 752	836 658 288 238 219	329 289 285 286 241	303 320 292 231 194	258 268 194 299 513
21 22 23 24 25	192 190 192 185 174	196 177 173	313 283 270 249 235	193 205 217 1320 1150	314 282 277 276 266	11300 4560 2830 2170 1840	1610 1530 983 478 377	618 447 337 307 291	348 286 214 204 264	219 209 208 205 193	183 178 172 164 167	333 259 205 184 172
26 27 28 29 30 31	177 167 167 173 172 169	183 398 551 317	218 229 228 218 215 206	397 277 247 235 234 8240	264 259 250 	1920 1840 950 547 5160 4040	621 538 384 343 333	290 306 363 484 363 291	268 468 344 466 394	195 204 197 194 300 310	368 234 186 176 171 163	162 153 150 151 159
TOTAL MEAN MAX MIN AC-FT	11027 355.7 1920 167 21870	259.0 652 162	14951 482.3 3960 194 29660	17015 548.9 8240 189 33750	20914 746.9 5100 250 41480	60060 1937 13300 211 119100	69397 2313 11700 333 137600	38562 1244 5040 290 76490	10070 335.7 836 204 19970	14448 466.1 1610 193 28660	11116 358.6 3070 163 22050	6698 223.3 552 150 13290
STATIST	CICS OF	MONTHLY MI	EAN DATA F	OR WATER	YEARS 1925	5 - 2002	, BY WATER	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	500.4 5779 1982 13.6 1940	4472 1982 18.9	489.5 8319 1992 25.0 1940	456.1 4504 1992 21.7 1930	685.5 4740 1997 26.8 1930	860.2 4521 1945 22.5 1940	863.1 7245 1942 42.6 1936	1599 14030 1990 48.5 1937	1075 11990 1989 17.0 1925	393.4 3475 1941 21.1 1939	249.4 1478 1950 12.1 1925	326.0 3094 1962 15.6 1931
SUMMARY	STATI	STICS	FOR	2001 CALE	NDAR YEAR	I	FOR 2002 W	VATER YEAR		WATER YEAR	S 1925	- 2002
MAXIMUM MAXIMUM	MEAN ANNUAL ANNUAL DAILY DAILY SEVEN- PEAK PEAK RUNOFF CENT EX	MEAN MEAN MEAN DAY MINIMUI FLOW STAGE (AC-FT) CEEDS CEEDS		350661 960.7 10500 147 154 695500 2770 337 171	Feb 16 Jul 30 Aug 5		282027 772.7 13300 150 162 14200 26.5 559400 1870 273 177	Mar 20 Sep 28 Sep 24 Mar 20 Mar 20		665.3 2629 79.3 48900 4.5 7.3 64400 33.88 482000 1580 185 49	Sep Jun 1 May	1992 1956 3 1990 7 1925 7 1925 3 1990 3 1990

# 08049500 West Fork Trinity River at Grand Prairie, TX--Continued



#### 08049500 West Fork Trinity River at Grand Prairie, TX--Continued

#### PRECIPITATION RECORDS

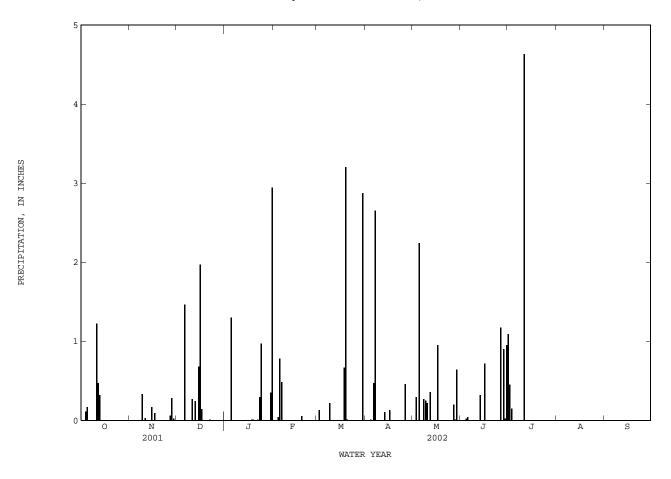
PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 405.42 ft above NGVD of 1929. REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 4.63 inches, July 11.

		PRECIPIT	TATION FRO	M DCP, ir		WATER YEA	AR OCTOBER JES	2001 TO	SEPTEMBER	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.11 0.17	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 1.30	0.00 0.00 0.00 0.04 0.78	0.00 0.13 0.00 0.00 0.00	0.00 0.00 0.00 0.01 0.00	0.00 0.00 0.29 0.00 2.24	0.00 0.00 0.00 0.02 0.04	1.09 0.45 0.15 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.33 0.00	1.46 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.48 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.22 0.00	0.47 2.65 0.00 0.00	0.00 0.00 0.27 0.25 0.22	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	1.22 0.47 0.32 0.00 0.00	0.03 0.00 0.00 0.00 0.17	0.27 0.00 0.24 0.00 0.68	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.10 0.00 0.00	0.00 0.36 0.00 0.00	0.00 0.00 0.32 0.00 0.00	4.63 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00	0.00 0.09 0.00 0.00	1.97 0.14 0.00 0.00 0.00	0.00 0.00 0.01 0.01 0.00	0.00 0.00 0.00 0.05 0.00	0.00 0.00 0.67 3.20 0.01	0.13 0.00 0.00 0.00 0.00	0.00 0.95 0.00 0.00	0.72 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.01 0.00 0.00 0.00	0.00 0.01 0.29 0.97 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.00 0.06 0.28 0.02 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.35 2.94	0.00 0.00 0.00 	0.00 0.00 0.00 0.00 2.87 0.00	0.46 0.00 0.00 0.00 0.00	0.00 0.20 0.01 0.64 0.00 0.00	1.17 0.00 0.90 0.02 0.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL	2.29	0.98	4.77	5.88	1.35	7.10	3.82	5.43	4.14	6.32	0.00	0.00

08049500 West Fork Trinity River at Grand Prairie, TX--Continued



#### 08049500 West Fork Trinity River at Grand Prairie, TX--Continued

#### WATER-OUALITY RECORDS

PERIOD OF RECORD. --CHEMICAL DATA: Jan. 1964 to current year. BIOCHEMICAL DATA: Jan. 1968 to current year.

PERIOD OF DAILY RECORD. -

SPECIFIC CONDUCTANCE: Oct. 1966 to Sept. 1992, Aug. 1993 to current year. pH: Oct. 1976 to Sept. 1992, Aug. 1993 to current year. WATER TEMPERATURE: Oct. 1966 to Sept. 1992, Aug. 1993 to current year. DISSOLVED OXYGEN: Oct. 1976 to Sept. 1992, Aug. 1993 to current year.

INSTRUMENTATION .-- Water-quality monitor since Nov. 1976.

REMARKS.--Records good. Interruption in the record was caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily records of specific conductance and regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

#### EXTREMES FOR PERIOD OF DAILY RECORD. --

EXEMSE FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,320 microsiemens/cm, Dec. 12, 1978; minimum, 108 microsiemens/cm, May 1, 1986. pH: Maximum, 8.6 units, on several days during period of record; minimum, 6.6 units, Jan. 6, 1979.
WATER TEMPERATURE: Maximum, 35.0°C, Aug. 8, 1982; minimum, 3.0°C, Jan. 9, 1973.
DISSOLVED OXYGEN: Maximum, 15.9 mg/L, Feb. 27, 2002; minimum, 0.0 mg/L, on several days during period of record.

#### EXTREMES FOR CURRENT YEAR. --

EXEMSE FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 982 microsiemens/cm, Oct. 7; minimum, 161 microsiemens/cm, May 5. pH: Maximum, 8.5 units, Feb. 26, 27, Sept. 18; minimum, 7.3 units, Oct. 11, 12, Aug. 10. WATER TEMPERATURE: Maximum, 32.9°C, July 25; minimum, 7.9°C, Feb. 6.
DISSOLVED OXYGEN: Maximum, 15.9 mg/L, Feb. 27; minimum, 2.2 mg/L, June 4.

#### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
NOV 07 MAR	1100	186	747	7.8	21.5	7.3	84	2.6	170	57	54.1	8.29	75.5
26	0930	1990	457	7.6	14.0	9.0	89	2.2	170	33	57.8	5.98	26.1
APR 30	0955	350	720	7.8	24.5	6.9	86	2.2	230	61	76.9	8.98	60.5
JUN 26	0945	209	713	7.6	28.0	5.8	77	2.4	180	48	58.2	8.03	64.2
JUL 18	1050	298	708	7.6	27.5	6.5	85	2.5	190	54	60.3	8.82	67.9
SEP 05	1015	194	726	7.3	30.0	5.7	76	4.2	160	29	53.5	7.40	74.6
03	1015	171	720	7.5	30.0	3.7	70	1.2	100	2,	33.3	7.10	71.0
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV													
07 MAR	3	47	10.7	<1	137	114	66.9	78.0	.7	8.8	429	13.2	.033
26	.9	25	4.37	1	164	136	44.9	25.1	. 4	6.4	262	2.07	.023
APR 30	.9 2	25 36		1		136 168	44.9 78.6	25.1 53.9	.4	6.4 8.7	262 442	2.07 9.98	.023
APR 30 JUN 26			4.37		164								
APR 30 JUN	2	36	4.37 6.90	1	164 202	168	78.6	53.9	.3	8.7	442	9.98	.020

# 08049500 West Fork Trinity River at Grand Prairie, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
NOV							
07	13.3	E.04		1.0	1.36	<.02	
MAR 26	2.10	. 09	.44	.53	.11	.11	.340
APR	2.10	.09		. 55	.11	. 11	.540
30	10.0	<.04		.80	.80	.72	2.21
JUN							
26	11.7	.04	.74	.78	. 59	.58	1.79
JUL	0.05	0.4				- 4	
18 SEP	8.86	<.04		.79	.52	.54	1.64
05	10.2	E.03		.96	1.21	1.14	3.48

Remark codes used in this report: < -- Less than E -- Estimated value

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	940 915 886 911 935	840 849 817 823 886	884 885 847 869 909	800 826 851 827 862	724 780 793 792 805	771 800 820 812 831	731 812 859 807 762	614 676 740 745 715	677 751 801 774 741	816 797 797 762 840	732 723 724 694 736	769 758 753 727 789
6 7 8 9 10	968 982 966 942 887	927 931 920 887 852	944 950 940 915 870	847 762 794 845 820	748 707 713 621 750	799 735 755 751 791	801 766 727 794 849	670 557 662 680 724	769 674 696 738 786	853 847 787 765 851	770 719 707 701 764	806 791 739 738 807
11 12 13 14 15	865 459 493 486	361 346 313 331 482	569 410 367 427 e496	829 780 708 547 687	655 655 473 476 547	762 723 551 503 637	817 742 762 698 670	718 677 547 589 600	781 715 672 661 631	828 851 877 908 855	776 791 806 816 780	801 820 840 860 815
16 17 18 19 20	594 672 769 823 853	581 605 697 773	e570 625 702 760 813	729 721 802 634 696	640 685 634 549 585	694 698 723 570 656	600 315 407 520 607	212 257 281 396 509	289 285 349 466 576	811 880 860 881 892	749 776 822 819 842	777 836 841 843 863
21 22 23 24 25	856 869 824 769 829	792 766 758 725 752	829 821 788 751 789	730 857 832 811 811	630 730 778 759 754	680 802 800 783 782	697 745 762 785 778	605 687 695 695 694	661 715 731 742 731	895 865 822 791 560	821 811 769 477 516	859 843 801 635 539
26 27 28 29 30 31	858 869 869 894 852 755	793 823 810 811 735 712	825 846 828 851 791 734	772 768 726 715 629	729 720 600 616 589	745 741 678 661 614	775 742 735 773 815 836	679 680 661 695 708 739	728 709 700 731 762 783	638 727 809 803 786 770	521 638 700 755 750 178	585 692 770 780 768 264
MONTH			761	862	473	722	859	212	672	908	178	758

08049500 West Fork Trinity River at Grand Prairie, TX--Continued

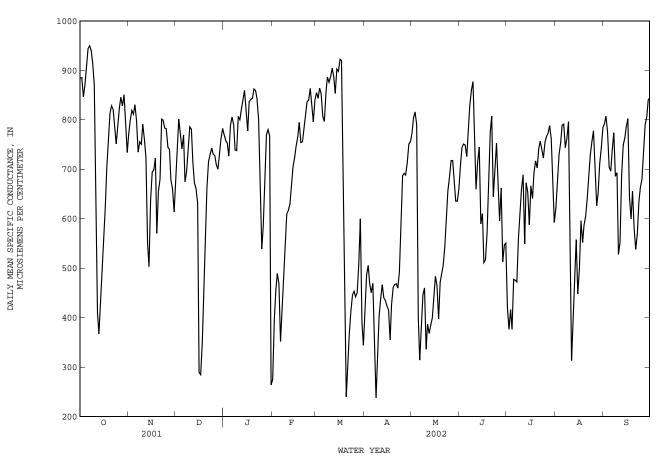
SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		SPECIF	IC CONDO	CIANCE, II	I US/CM (	2 ZSC, WAIER	YEAR	OCTOBER	2001 10	SEPIEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	348	198	275	881	833	855	441	380	421	795	746	774
2	420	348	394	881 883	813	844	511	380 441 427 425	486	828	781	804
3	491	408	457	918 895 838	819	864	551 535	427	506	836	787	816
4	518	456	489	895	799	853	535	425	470	836 846	724	790
5	508	418	469	838	767	807	459	438	451	724	161	401
6	418	331	351	824	766	797	501	446	469	355	286	314
7	449	364	420	824 900	805	855	482	216	372		355	385
8	515	442	490	012	860			213	238	478	392	446
9	587	498	550	894	859	876	273 369	273	316		406	460
10	652	564	610	915	857	887	429	369	402	406	277	335
11	645	595	617	946	873	904	457	429	439	404	353	387
12	655	617	630	918	849	000	E10	431	467	383		368
13	683	643	667	878	825	853	457 447	430	441	400	362	385
14	727	683	705	946	855	903	447	414	435		379	400
15	740	709	723	913	884	898	434	415	424	462	416	443
16	767	719	748	956	890	922	438	325	416	507	448	483
17	783	744	767	942	899	920	400	246	355	508	410	464
18	829	754	795	931	533		447	393	427	425	361	397
19	780	716	754	751	195	467	473	447	461	494	425	472
20	788	719	756	268	218	240	474	455	467	510	458	489
0.1	0.01	754	701	200	0.61	206	404	440	460	F00	401	506
21 22	821 844	754 766	781 806	322 391	261 322	296 368	484 468	448 447	468 459	528 585	481 505	506 545
23	868	807	837	439	391	414	537	451	492	629	573	607
24	866	806	840	439 454	438	446	655	537	601	682		656
25	898	817	864	462	439	453	705	653	686	701		684
26	877	774	831	452 463 555 641	425	442	720	642	692	746		717
27 28	838 887	765 796	796 840	463 555	427 449	450 507	711 755	668 672	689 713	758 694	662 657	718 675
29				641	555	600	764	737	751	674		635
30				639	290	389	774	738	756	659	604	636
31				380	311	344				682	624	661
MONTH	898	198	652	956	195	677	774	213	492	846	161	544
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX		MEAN	MAX		
DAY	MAX	MIN JUNE	MEAN		JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
DAY 1		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2	735 767	JUNE 671 707			JULY	421 376	654 715	AUGUST 582 593	622 673	797 825	SEPTEMB 783 790	ER 791 808
1 2 3	735 767 776	JUNE 671 707 707	710 744 751		JULY	421 376 416	654 715 751	AUGUST 582 593 701	622 673 730	797 825 804	SEPTEMB 783 790 738	ER 791 808 775
1 2 3 4	735 767 776 779	JUNE 671 707 707 697	710 744 751 749		JULY	421 376 416 376	654 715 751 771	AUGUST 582 593 701 736	622 673 730 754	797 825 804 738	783 790 738 695	791 808 775 705
1 2 3	735 767 776	JUNE 671 707 707	710 744 751			421 376 416	654 715 751	AUGUST 582 593 701	622 673 730	797 825 804	SEPTEMB 783 790 738	ER 791 808 775
1 2 3 4	735 767 776 779	JUNE 671 707 707 697	710 744 751 749		JULY	421 376 416 376	654 715 751 771	AUGUST 582 593 701 736	622 673 730 754	797 825 804 738 720	SEPTEMB  783 790 738 695 683	791 808 775 705
1 2 3 4 5	735 767 776 779 754	JUNE 671 707 707 697 696	710 744 751 749 726	500 428 493 401 552 555 533	JULY 332 313 344 342 398 399 399	421 376 416 376 477 476 472	654 715 751 771 825 813 758	AUGUST 582 593 701 736 758 758	622 673 730 754 789	797 825 804 738 720	783 790 738 695 683 720 756	791 808 775 705 696
1 2 3 4 5	735 767 776 779 754	JUNE 671 707 707 697 696	710 744 751 749 726 e786 e829 e860	500 428 493 401 552 555 533 593	JULY  332 313 344 342 398  399 399 529	421 376 416 376 477 476 472 560	654 715 751 771 825 813 758 786	AUGUST 582 593 701 736 758 758 733 738	622 673 730 754 789 791 744 763	797 825 804 738 720 756  813	783 790 738 695 683 720 756 526	791 808 775 705 696 738 e774 686
1 2 3 4 5 6 7 8	735 767 776 779 754	JUNE 671 707 707 697 696	710 744 751 749 726 e786 e829 e860 e878	500 428 493 401 552 555 533 593 646	JULY  332 313 344 342 398  399 399 529 576	421 376 416 376 477 476 472 560 610	654 715 751 771 825 813 758 786 812	AUGUST  582 593 701 736 758 758 733 738 776	622 673 730 754 789 791 744 763 796	797 825 804 738 720 756  813 782	783 790 738 695 683 720 756 526 549	791 808 775 705 696 738 e774 686 693
1 2 3 4 5	735 767 776 779 754	JUNE 671 707 707 697 696	710 744 751 749 726 e786 e829 e860	500 428 493 401 552 555 533 593	JULY  332 313 344 342 398  399 399 529	421 376 416 376 477 476 472 560	654 715 751 771 825 813 758 786	AUGUST 582 593 701 736 758 758 733 738	622 673 730 754 789 791 744 763	797 825 804 738 720 756  813	783 790 738 695 683 720 756 526	791 808 775 705 696 738 e774 686
1 2 3 4 5 6 7 8 9	735 767 776 779 754 	JUNE 671 707 707 697 696	710 744 751 749 726 e786 e829 e860 e878 e781	500 428 493 401 552 555 533 593 646 690	JULY  332 313 344 342 398  399 399 529 576 621	421 376 416 376 477 476 472 560 610 660	654 715 751 771 825 813 758 786 812 811	AUGUST 582 593 701 736 758 758 733 738 776 317	622 673 730 754 789 791 744 763 796 613	797 825 804 738 720 756  813 782 558	783 790 738 695 683 720 756 526 549 498	791 808 775 705 696 738 e774 686 693 528
1 2 3 4 5 6 7 8	735 767 776 779 754	JUNE 671 707 707 697 696	710 744 751 749 726 e786 e829 e860 e878	500 428 493 401 552 555 533 593 646	JULY  332 313 344 342 398  399 399 529 576	421 376 416 376 477 476 472 560 610	654 715 751 771 825 813 758 786 812	AUGUST  582 593 701 736 758 758 733 738 776	622 673 730 754 789 791 744 763 796	797 825 804 738 720 756  813 782	783 790 738 695 683 720 756 526 549	791 808 775 705 696 738 e774 686 693
1 2 3 4 5 6 7 8 9 10 11 12 13	735 767 776 779 754	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781	500 428 493 401 552 555 533 593 646 690 748 693 735	JULY  332 313 344 342 398  399 529 576 621 327 327 603	421 376 416 376 477 476 472 560 610 660 689 549 673	654 715 751 771 825 813 758 786 812 811 459	582 593 701 736 758 758 758 733 736 717 317 272 330 454	622 673 730 754 789 791 744 763 796 613 313 406 497	797 825 804 738 720 756  813 782 558 592 747 760	783 790 738 695 683 720 756 526 549 498 500 592 739	791 808 775 705 696 738 e774 686 693 528 553 689 749
1 2 3 4 5 6 7 8 9 10 11 12 13 14	735 767 776 779 754   727 	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e790	500 428 493 401 552 555 533 593 646 690 748 693 735 682	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503	421 376 416 376 477 476 472 560 610 660 689 549 673 654	654 715 751 771 825 813 758 786 812 811 459 459 459 517 610	AUGUST  582 593 701 736 758 758 733 738 737 317 272 330 454 405	622 673 730 754 789 791 744 763 796 613 313 406 497 558	797 825 804 738 720 756  813 782 558 592 747 760 773	783 790 738 695 683 720 756 526 529 498 500 592 739	791 808 775 705 696 738 e774 686 693 528 553 689 764
1 2 3 4 5 6 7 8 9 10 11 12 13	735 767 776 779 754 	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781	500 428 493 401 552 555 533 593 646 690 748 693 735	JULY  332 313 344 342 398  399 529 576 621 327 327 603	421 376 416 376 477 476 472 560 610 660 689 549 673	654 715 751 771 825 813 758 786 812 811 459 459 517	582 593 701 736 758 758 758 733 736 717 317 272 330 454	622 673 730 754 789 791 744 763 796 613 313 406 497	797 825 804 738 720 756  813 782 558 592 747 760	783 790 738 695 683 720 756 526 549 498 500 592 739	791 808 775 705 696 738 e774 686 693 528 553 689 749
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	735 767 776 779 754   727 	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709	JULY  332 313 344 342 398  399 529 576 621 327 327 603 503 348	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587	654 715 751 771 825 813 758 812 811 459 459 517 610 554	582 593 7011 736 758 758 733 738 736 317 272 330 454 405	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448	797 825 804 738 720 756  813 782 558 592 747 760 773 808	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	735 767 776 779 754   727 	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587	654 715 751 825 813 758 786 812 811 459 459 459 517 610 554	AUGUST  582 593 701 1736 758 758 733 738 737 317 272 330 454 405 363	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448	797 825 804 738 720 756  813 782 558 592 747 760 773 808	783 790 738 695 683 720 756 526 526 549 498 500 592 739 753 761	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	735 767 776 779 754   727 	JUNE 671 707 707 697 696 633	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709	JULY  332 313 344 342 398  399 529 576 621 327 327 603 503 348	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587	654 715 751 771 825 813 758 812 811 459 459 517 610 554	582 593 7011 736 758 758 733 738 736 317 272 330 454 405	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448	797 825 804 738 720 756  813 782 558 592 747 760 773 808	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	735 767 776 779 754   727   610 728	JUNE 671 707 707 697 696 633 520 603	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610 e511 e517 572 683	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717	654 715 771 825 813 758 812 811 459 459 517 610 554 517 650 607 614	AUGUST  582 593 701 736 758 758 733 738 737 317 272 330 454 405 363 452 514 525 551	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 705	783 790 738 695 683 720 756 526 526 549 498 500 592 739 753 761 745 603 591 601	791 808 775 705 696 738 e774 686 693 528 553 689 764 787 803 644 599 656
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18	735 767 776 779 754   727    610	JUNE 671 707 707 697 696 633 520	710 744 751 749 726 e786 e829 e860 e878 e781 e745 e590 e610 e511 e517 572	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736	JULY  332 313 344 342 398  399 529 576 621  327 603 503 348 568 594 666	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587	654 715 751 825 813 758 786 812 811 459 517 610 554 517 650 607	XUGUST  582 593 701 736 758  758 733 738 776 317  272 330 454 405 363 452 514 525	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 5956	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761 745 603 591	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	735 767 777 776 779 754   727   610 728 802	JUNE 671 707 707 697 696 633 520 603 716	710 744 751 749 726 e786 e829 e860 e878 e781 e745 e590 e610 e511 e517 572 683 777	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 759 728	JULY  332 313 344 342 398  399 529 576 621  327 603 503 348 568 594 666 679 683	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703	654 715 751 771 825 813 758 786 812 811 459 517 610 554 517 650 607 614 641	XUGUST  582 593 701 736 758 758 733 738 776 317 272 330 454 405 363 452 514 452 551 551	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605	797 825 804 738 720 756  813 3782 558 592 747 760 773 808 848 745 618 705 733	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761 745 603 591 601 498	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 656 581
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	735 767 776 779 754   727  610 728 802	JUNE 671 707 707 697 696 633 520 603 716	710 744 751 749 726 e786 e829 e8860 e878 e781 659 e715 e745 e590 e610 e511 e517 572 683 777	500 428 493 401 552 555 533 646 690 748 693 735 682 709 708 674 736 728 768	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703	654 7151 7711 825 813 758 812 811 459 459 517 610 554 517 650 607 614 641	AUGUST  582 593 701 736 758 758 738 738 738 736 317 272 330 454 405 363 452 514 525 551 551	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 618 705 733	783 790 738 695 683 720 756 526 526 549 498 500 592 739 761 745 603 591 601 498	791 808 775 705 696 738 e774 686 693 528 553 689 764 787 803 644 599 656 581
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	735 767 777 776 779 754   727   610 728 802	JUNE 671 707 707 697 696 633 520 603 716	710 744 751 749 726 e786 e829 e860 e878 e781 e745 e590 e610 e511 e517 572 683 777	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 759 728	JULY  332 313 344 342 398  399 529 576 621  327 603 503 348 568 594 666 679 683	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703	654 715 751 771 825 813 758 786 812 811 459 517 610 554 517 650 607 614 641	XUGUST  582 593 701 736 758 758 733 738 776 317 272 330 454 405 363 452 514 452 551 551	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605	797 825 804 738 720 756  813 3782 558 592 747 760 773 808 848 745 618 705 733	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761 745 603 591 601 498	791 808 775 705 696 738 e774 686 528 553 689 749 764 787 803 644 599 656 581
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	735 767 776 779 754   727  610 728 802 851 845 740 794	JUNE 671 707 707 697 696 633 520 603 716 759 605 630 697	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610 e511 e517 572 683 777 807 645 700 753	500 428 493 401 552 555 533 646 690 748 693 735 682 709 708 674 736 728 788 780 745	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723	654 715 771 825 813 758 812 811 459 459 459 517 650 607 614 641 675 722 742 772	AUGUST  582 593 701 736 758 758 738 738 738 736 317 272 330 454 405 363 452 514 525 551 551 606 658 718 718	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 618 733	783 790 738 695 683 720 756 526 526 549 498 500 592 739 761 745 603 591 601 498 503 548 666	791 808 775 705 696 738 e774 6893 528 553 689 764 787 803 644 599 656 581
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	735 767 776 779 754 727 610 728 802 851 845 740	JUNE 671 707 697 696 633 520 603 716 759 605 630	710 744 751 749 726 e786 e829 e860 e878 e781 e745 e590 e610 e511 e517 572 683 777	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 759 728 768 768 768 760	JULY  332 313 344 342 398  399 529 576 621  327 603 503 348 568 594 666 679 683 683 724 717	421 376 416 376 477 476 472 560 660 689 549 673 654 587 666 641 693 717 703	654 7151 7711 825 813 758 786 812 811 459 517 610 654 517 660 607 614 641 675 722 742	XUGUST  582 593 701 736 758 758 733 738 776 317  272 330 454 405 363 452 514 525 551 551 606 658 718	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 552 587 605	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 705 733 571 586 665	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761 745 603 591 601 498 503 548 568	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 656 581
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	735 767 776 779 754 727 610 728 802 851 845 740 794 749	JUNE 671 707 697 696 633 520 603 716 759 605 630 697 454	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e745 e590 e610 e511 e517 572 683 777 807 645 700 753 690	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 759 728 768 780 745 787	JULY  332 313 344 342 398  399 399 529 576 621  327 603 503 348  568 594 666 679 683  683 724 717 705 732	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755	654 715 751 771 825 813 758 788 812 811 459 517 610 554 517 641 641 675 722 742 772 793	XUGUST  582 593 701 736 758 758 733 738 776 317  272 2330 454 405 551 551 606 658 718 736 758	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 778	797 825 804 738 720 756  813 3782 558 592 747 760 773 808 848 745 618 705 733 571 586 665 721 699	783 790 738 695 683 720 756 526 549 498 500 592 739 753 761 745 603 591 601 498 503 548 616 659	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 656 581 538 569 634 663 680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	735 767 776 779 754   727  610 728 802 851 845 740 794 749	JUNE 671 707 707 697 696 633 520 603 716 759 605 630 697 454	710 744 751 749 726 e786 e829 e860 e878 e781 659 e715 e745 e590 e610 e511 e517 572 683 777 807 645 700 753 690	500 428 493 401 552 555 533 646 690 748 693 735 682 709 708 674 736 728 788 780 745	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705 732	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755	654 715 771 825 813 758 812 811 459 459 459 517 650 607 614 641 675 722 742 772	AUGUST  582 593 701 736 758 758 733 738 736 317 272 330 454 405 363 452 514 525 551 551 606 658 718 738 738 738 736 758	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 618 733	783 790 738 695 683 720 756 526 526 549 498 500 592 739 761 745 603 591 601 498 503 548 666 659	791 808 775 705 696 738 e774 6893 528 553 689 764 787 803 644 599 656 581 538 569 634 663 680
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	735 767 776 779 754 727 610 728 802 851 845 740 794 749 696 786 786 786	JUNE 671 707 697 696 633 520 603 716 759 605 630 697 454	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e745 e590 e610 e511 e517 572 683 777 807 645 700 753 690 596 662 513	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 759 728 768 760 745 787 787	JULY  332 313 344 342 398 399 399 529 576 621 327 603 503 348 568 594 666 679 683 683 724 717 705 732 755 757 768	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755	654 7151 7711 825 813 758 786 812 811 459 517 610 554 517 6607 614 641 675 722 772 793 794 701 677	XUGUST  582 593 701 736 758 738 738 738 737 317  272 2330 454 405 551 551 606 658 718 736 758 527 478 631	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 778	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 705 733 571 665 721 699 774 806 817	783 790 738 695 683 720 756 526 526 529 498 500 592 739 753 761 745 603 591 601 498 503 548 616 659 698 771 786	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 656 581 538 639 634 663 680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	735 767 776 779 754   727  610 728 802 851 845 740 794 749 696 786 6568 614	JUNE 671 707 707 697 696 633 520 603 716 759 605 630 697 454 454 523 372 366	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e745 e590 e610 e511 e517 572 683 777  807 645 700 753 690  596 662 513 547	500 428 493 401 552 555 533 646 690 748 693 735 682 709 708 674 736 759 728 768 780 760 745 787	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705 732 755 757 768 740	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755	654 715 7711 825 813 758 812 811 459 459 517 610 554 517 650 607 614 641 675 722 742 742 772 793 794 701 6729	AUGUST  582 593 701 736 758 758 733 738 736 317 272 330 454 405 363 452 514 525 551 606 658 718 736 758 527 478 631 677	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 778 697 626 651 712	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 605 733 571 586 665 665 721 699	783 790 738 695 683 720 756 526 526 529 498 500 592 739 761 745 603 591 601 498 503 548 668 616 659	791 808 775 705 696 738 6774 683 528 553 689 764 787 803 644 599 656 581 538 569 634 663 680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	735 767 776 779 754 727 610 728 802 851 845 740 794 749 696 686 618 6568 614 586	JUNE 671 707 697 696 633 520 603 716 759 605 630 697 454 454 523 372 366 441	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e590 e610  e511 e517 572 683 777  807 645 700 753 690  596 662 513 547 551	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 728 760 745 787 789 799 815 774 775	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705 732 755 757 768 740 470	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755 767 772 788 762 669	654 7151 7711 825 813 7586 812 811 459 459 517 610 554 517 650 6014 641 675 742 742 772 793 794 701 677 772	582 593 758 758 758 733 736 776 317 272 330 454 405 363 452 514 525 551 551 606 658 718 736 758	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 6778	797 825 804 738 720 756  813 818 558 592 747 7600 773 808 848 745 618 705 733 571 586 665 721 699	783 790 788 695 683 720 756 526 526 529 498 500 592 739 753 761 745 603 591 698 508 616 659 698 771 786 810 832	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 634 599 634 680 739 791 806 840 844
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	735 767 776 779 754   727  610 728 802 851 845 740 794 749 696 786 6568 614	JUNE 671 707 707 697 696 633 520 603 716 759 605 630 697 454 454 523 372 366	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e745 e590 e610 e511 e517 572 683 777  807 645 700 753 690  596 662 513 547	500 428 493 401 552 555 533 646 690 748 693 735 682 709 708 674 736 759 728 768 780 760 745 787	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705 732 755 757 768 740	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755	654 715 7711 825 813 758 812 811 459 459 517 610 554 517 650 607 614 641 675 722 742 742 772 793 794 701 6729	AUGUST  582 593 701 736 758 758 733 738 736 317 272 330 454 405 363 452 514 525 551 606 658 718 736 758 527 478 631 677	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 778 697 626 651 712	797 825 804 738 720 756  813 782 558 592 747 760 773 808 848 745 618 605 733 571 586 665 665 721 699	783 790 738 695 683 720 756 526 526 529 498 500 592 739 761 745 603 591 601 498 503 548 668 616 659	791 808 775 705 696 738 6774 683 528 553 689 764 787 803 644 599 656 581 538 569 634 663 680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	735 767 776 779 754 727 610 728 802 851 845 740 794 749 696 686 618 6568 614 586	JUNE 671 707 697 696 633 520 603 716 759 605 630 697 454 454 523 372 366 441	710 744 751 749 726 e786 e829 e860 e878 e781  659 e715 e590 e610  e511 e517 572 683 777  807 645 700 753 690  596 662 513 547 551	500 428 493 401 552 555 533 593 646 690 748 693 735 682 709 708 674 736 728 760 745 787 789 799 815 774 775	JULY  332 313 344 342 398 399 399 529 576 621 327 327 603 503 348 568 594 666 679 683 683 724 717 705 732 755 757 768 740 470	421 376 416 376 477 476 472 560 610 660 689 549 673 654 587 666 641 693 717 703 741 757 741 723 755 767 772 788 762 669	654 7151 7711 825 813 7586 812 811 459 459 517 610 554 517 650 6014 641 675 742 742 772 793 794 701 677 772	582 593 758 758 758 733 736 776 317 272 330 454 405 363 452 514 525 551 551 606 658 718 736 758	622 673 730 754 789 791 744 763 796 613 313 406 497 558 448 499 596 552 587 605 642 689 729 756 6778	797 825 804 738 720 756  813 818 558 592 747 7600 773 808 848 745 618 705 733 571 586 665 721 699	783 790 788 695 683 720 756 526 526 529 498 500 592 739 753 761 745 603 591 698 508 616 659 698 771 786 810 832	791 808 775 705 696 738 e774 686 693 528 553 689 749 764 787 803 644 599 634 599 634 680 739 791 806 840 844

e Estimated

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08049500 West Fork Trinity River at Grand Prairie, TX--Continued



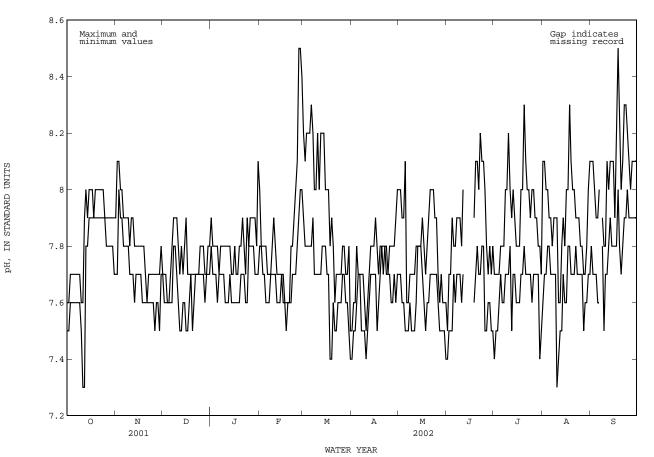
PH, WH, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		•										
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCT	OBER	NOVE	BER	DECEM	BER	JANU	JARY	FEBRU	JARY	MAI	RCH
1 2 3 4 5	7.6 7.6 7.7 7.7 7.7	7.5 7.5 7.6 7.6	7.9 8.1 8.1 8.0 8.0	7.7 7.7 8.0 7.9 7.9	7.7 7.7 7.7 7.6 7.6	7.7 7.6 7.6 7.6 7.6	7.9 7.8 7.8 7.8 7.8	7.8 7.7 7.7 7.7 7.6	8.0 7.8 7.8 7.8 7.8	7.8 7.8 7.7 7.7	8.2 8.1 8.2 8.2 8.2	7.9 7.8 7.8 7.8 7.8
6 7 8 9 10	7.7 7.7 7.7 7.7 7.6	7.6 7.6 7.6 7.6 7.5	7.9 7.9 7.9 7.9 7.8	7.8 7.8 7.8 7.8 7.7	7.7 7.8 7.9 7.9	7.6 7.6 7.8 7.8 7.7	7.7 7.8 7.8 7.8 7.8	7.7 7.7 7.7 7.7 7.6	7.7 7.7 7.7 7.8 7.9	7.6 7.6 7.7 7.7	8.3 8.2 8.0 8.0 8.2	7.8 7.9 7.7 7.7
11 12 13 14 15	7.6 7.9 8.0 7.9 8.0	7.3 7.3 7.8 7.8 7.9	7.9 7.9 7.8 7.8 7.8	7.7 7.7 7.6 7.7 7.7	7.8 7.7 7.8 7.7 7.8	7.6 7.5 7.5 7.6 7.6	7.8 7.8 7.8 7.7	7.6 7.6 7.7 7.6 7.6	7.8 7.7 7.7 7.7 7.7	7.7 7.6 7.6 7.6 7.7	8.0 8.2 8.2 8.2 8.0	7.7 7.7 7.8 7.8 7.8
16 17 18 19 20	8.0 8.0 7.9 8.0 8.0	7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.7	7.7 7.7 7.6 7.6 7.6	7.9 7.7 7.7 7.7 7.7	7.5 7.5 7.6 7.7 7.5	7.8 7.7 7.7 7.8 7.8	7.6 7.6 7.6 7.6 7.7	7.7 7.6 7.6 7.6 7.6	7.6 7.6 7.5 7.6 7.6	8.0 8.0 7.8 7.9	7.7 7.7 7.4 7.4 7.6
21 22 23 24 25	8.0 8.0 8.0 8.0 7.9	7.9 7.9 7.9 7.9	7.6 7.7 7.7 7.7 7.7	7.6 7.6 7.6 7.6 7.6	7.7 7.7 7.7 7.7 7.8	7.6 7.7 7.7 7.7 7.7	7.9 7.8 7.7 7.9 7.8	7.7 7.7 7.6 7.6 7.8	7.8 7.8 7.9 8.0 8.1	7.6 7.7 7.7 7.7 7.8	7.6 7.7 7.7 7.7 7.7	7.5 7.5 7.6 7.6 7.6
26 27 28 29 30 31	7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.8 7.7	7.7 7.7 7.7 7.7 7.8	7.5 7.6 7.6 7.5 7.7	7.8 7.8 7.7 7.7 7.8 7.8	7.7 7.7 7.6 7.7 7.7	7.9 7.9 7.9 7.9 7.8 8.1	7.8 7.8 7.8 7.7 7.7	8.5 8.5 8.4 	7.9 8.0 8.0 	7.8 7.8 7.7 7.7 7.8 7.5	7.7 7.7 7.6 7.6 7.5 7.4
MONTH	8.0	7.3	8.1	7.5	7.9	7.5	8.1	7.6	8.5	7.5	8.3	7.4

08049500 West Fork Trinity River at Grand Prairie, TX--Continued

PH, WH, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APF	RIL	MZ	ΑΥ	JUI	ΙE	JUL	Y	AUGU	JST	SEPTE	MBER
1 2 3 4 5	7.5 7.6 7.6 7.8 7.7	7.4 7.5 7.5 7.6 7.7	8.0 8.0 7.9 7.9 8.1	7.7 7.7 7.6 7.6 7.5	7.5 7.7 7.7 7.9 7.8	7.4 7.5 7.5 7.5 7.7	7.7 7.7 7.7 7.7 7.8	7.4 7.5 7.5 7.6 7.7	8.1 8.0 8.0 7.9	7.6 7.7 7.7 7.8 7.8	8.1 8.0 7.9 7.9	7.8 7.7 7.7 7.7 7.6
6 7 8 9 10	7.7 7.7 7.7 7.6 7.5	7.7 7.5 7.5 7.5 7.4	7.6 7.6 7.7 7.7	7.5 7.5 7.6 7.5 7.5	7.8 7.9 7.9 7.9 7.8	7.6 7.7 7.7 7.7 7.6	7.8 7.8 8.0 8.0	7.6 7.6 7.7 7.7	7.9 7.8 7.9 7.9	7.7 7.7 7.7 7.7 7.3	8.0  7.9 7.8 7.8	7.6  7.8 7.5 7.7
11 12 13 14 15	7.6 7.7 7.8 7.8 7.8	7.5 7.6 7.7 7.7 7.7	7.7 7.8 7.8 7.8 7.8	7.5 7.6 7.8 7.8 7.8	8.0   	7.7   	8.0 7.9 8.0 7.9 7.8	7.8 7.5 7.7 7.7 7.6	7.6 7.6 7.8 7.9 7.8	7.4 7.5 7.5 7.7 7.6	8.1 8.0 8.1 8.1	7.7 7.8 7.9 7.8 7.8
16 17 18 19 20	7.9 7.8 7.7 7.8 7.8	7.7 7.5 7.6 7.7 7.8	7.9 7.8 7.7 7.8 7.9	7.7 7.6 7.5 7.6 7.6	7.9 8.1 8.1	 7.6 7.7 7.8	7.8 7.8 8.0 8.0	7.6 7.6 7.7 7.7	8.0 8.3 8.1 8.0	7.6 7.8 7.8 7.7 7.7	7.9 8.2 8.5 8.3 8.0	7.8 7.8 8.0 7.8 7.7
21 22 23 24 25	7.8 7.8 7.8 7.7 7.8	7.7 7.8 7.7 7.7	8.0 8.0 8.0 7.9	7.7 7.7 7.7 7.7 7.7	8.0 8.2 8.1 8.1	7.7 7.7 7.8 7.8 7.5	8.1 8.0 8.0 7.9 8.0	7.7 7.7 7.7 7.7 7.6	8.0 7.9 7.9 7.9 7.8	7.7 7.8 7.7 7.7 7.7	8.1 8.3 8.3 8.2 8.1	7.8 7.9 7.9 8.0 7.9
26 27 28 29 30 31	7.8 7.8 7.8 7.9 8.0	7.6 7.6 7.7 7.6 7.7	7.7 7.6 7.7 7.6 7.6 7.6	7.6 7.5 7.5 7.5 7.5 7.4	7.8 7.7 7.8 7.7 7.8	7.5 7.6 7.6 7.5 7.5	8.0 7.9 7.9 7.8 7.8 7.7	7.7 7.7 7.7 7.7 7.4 7.5	7.8 7.7 7.7 7.8 8.0 8.1	7.7 7.5 7.6 7.6 7.7	8.0 8.1 8.1 8.1	7.9 7.9 7.9 7.9 7.9
MONTH	8.0	7.4	8.1	7.4			8.3	7.4	8.3	7.3		



TRINITY RIVER BASIN

# 08049500 West Fork Trinity River at Grand Prairie, TX--Continued

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WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

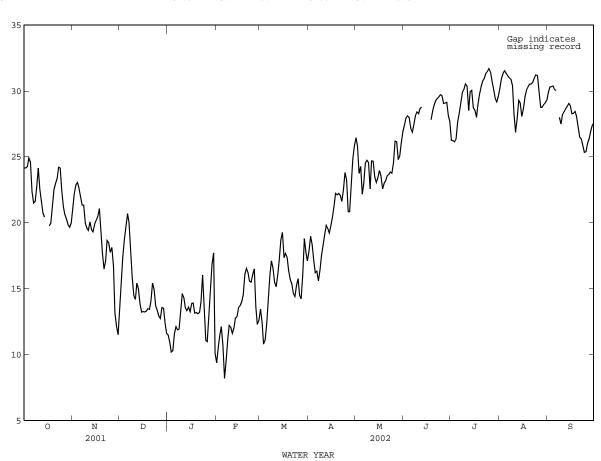
DAY	MAX	MIN	MEAN	MAX			MAX		MEAN		MIN	MEAN
		OCTOBER		N			DI				JANUARY	
1 2 3 4 5	25.3 25.2 25.0 26.0 25.3	23.2 23.3 23.5 24.0 23.2	24.2 24.2 24.3 24.9 24.6	22.0 22.9 23.7 23.7 23.4	20.3 21.6 22.1 22.6 22.0	21.1 22.2 22.9 23.1 22.7	14.7 16.8 18.0 19.5 20.3					
6 7 8 9 10	23.2 22.4 22.3 23.5 25.2	21.5 20.7 21.0 22.1 23.4		22.6 21.9 22.2 21.5 19.9		22.0 21.4 21.3 20.0 19.6	21.2 20.6 19.4 16.5 15.0	20.3 19.4 16.5 15.0 13.8	20.7 20.0 18.0 15.9 14.5	12.9 12.5 13.0 14.5 15.1	11.6 11.2 11.0 12.3 14.1	12.1 11.9 11.9 13.4 14.6
14 15	21.4		22.5 21.6 20.8 20.4	19.6 20.8 20.4 19.6 20.2	18.9 18.8 19.0 19.0	19.4 20.1 19.5 19.3 19.9	14.5 16.6 16.8 14.9 14.3	13.9 13.9 13.1 13.1 12.7	14.2 15.4 15.0 13.9 13.2	15.0 14.2 14.1 14.4 13.9	13.9 13.0 12.6 13.0 12.5	14.3 13.6 13.3 13.6 13.3
18	20.9 20.6 21.0 22.3 23.6	18.9 19.0 20.2 21.7	19.8 20.0 21.1 22.5	20.6 21.0 21.4 20.6 18.3	19.7 19.8 20.6 18.1 16.9	20.2 20.5 21.1 19.3 17.7	14.5 13.7 13.9 14.1 13.9	12.7 13.0 12.7 12.8 13.0	13.3 13.2 13.3 13.5 13.4	14.8 14.4 13.4 13.9 13.9	13.1 13.4 13.0 12.6 12.5	13.9 13.9 13.1 13.2 13.1
21 22 23 24 25	23.8 24.2 25.2 24.8 23.4	22.4 22.5 23.6 23.4 21.6	23.0 23.4 24.2 24.2 22.4	17.0 18.0 19.5 19.0 18.3	15.9 16.3 17.8 18.0 17.1	16.5 17.1 18.7 18.5 17.8	14.6 16.3 15.4 14.1 14.0	13.6 14.6 14.0 13.2 13.0	14.1 15.4 14.9 13.7	14.1 15.0 17.0 16.8 11.7	12.3 13.2 14.9 11.0 10.6	13.2 14.0 16.0 13.7 11.1
26 27 28 29 30 31	21.9 21.4 21.1 20.4 20.5 20.5	20.5 20.1 19.7 19.3 18.7 19.3	21.2 20.6 20.3 19.9 19.7 20.0	19.0 18.3 15.2 13.0 12.5	17.4 15.2 11.8 11.1 10.9	18.1 16.7 13.2 12.2 11.5	13.5 13.5 14.3 14.0 12.9 12.1	12.5 12.1 12.9 12.9 11.9	12.9 12.8 13.6 13.5 12.4 11.6	12.2 13.5 15.8 18.0 18.1 16.6	9.7 11.8 13.3 15.4 16.6 8.9	11.0 12.7 14.6 16.9 17.7
MONTH				23.7	10.9	19.1	21.2	11.2	14.9	18.1	8.9	13.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	10.1 11.0 12.1 12.6	8.9 10.1 10.7	9.4 10.6	13.9 13.9	13.1	13.5	18 7	17.1	17.9	27 0	25.2	26.5 25.8
6	12.4	11.6					18.7 19.8 18.9 17.6 17.0					24.3
7 8 9 10		11.6 8.8 7.9 8.5 10.1 11.2 11.4		11.8 12.4 13.9 15.6 17.2 17.6 17.5 16.6			19.8 18.9 17.6 17.0 16.5 16.0 17.2 18.1 19.0		19.0 18.3 17.2 16.2 16.3 15.6 16.4 17.5 18.3			24.3
	8.8 10.4 12.0 13.2 12.7	7.9 8.5 10.1 11.2 11.4	8.2 9.5 11.1 12.2 12.1	15.6 17.2 17.6 17.5 16.6	12.9 15.0 16.6 15.4 14.5	14.2 16.1 17.1 16.6 15.5		15.8 15.3 15.8 17.2 17.8	16.3 15.6 16.4 17.5 18.3	24.0 25.1 25.3 24.9 24.2	21.8 24.0 24.4 24.2 21.2	24.3 22.2 23.0 24.5 24.7 24.6 22.6
11 12 13 14	8.8 10.4 12.0 13.2 12.7 12.3 12.9 13.5 13.4	7.9 8.5 10.1 11.2 11.4 10.6 11.0 12.0 12.1	8.2 9.5 11.1 12.2 12.1 11.6 12.0 12.8 12.9	15.6 17.2 17.6 17.5 16.6 15.5 17.7 18.6 20.2	12.9 15.0 16.6 15.4 14.5 14.9 15.0 16.0 17.5	14.2 16.1 17.1 16.6 15.5 15.2 16.1 17.2 18.7	16.5 16.0 17.2 18.1 19.0 19.7 20.1 20.0 19.5	15.8 15.3 15.8 17.2 17.8 18.5 19.4 19.1 19.0	16.3 15.6 16.4 17.5 18.3 19.1 19.8 19.6 19.2	24.0 25.1 25.3 24.9 24.2 25.5 24.9 24.1 23.7	21.8 24.0 24.4 24.2 21.2 23.7 24.1 22.8 22.5	24.3 22.2 23.0 24.5 24.7 24.6 22.6 24.7 24.7 23.5 23.1
11 12 13 14 15 16 17 18 19	8.8 10.4 12.0 13.2 12.7 12.3 12.9 13.5 14.2 14.5 14.7 14.9 17.1	7.9 8.5 10.1 11.2 11.4 10.6 11.0 12.0 12.1 13.0 12.8 13.2 14.9	8.2 9.5 11.1 12.2 12.1 11.6 12.0 12.8 12.9 13.6 13.7 14.0 14.5 16.1	15.6 17.2 17.6 17.5 16.6 15.5 17.7 18.6 20.2 19.9 18.0 18.7 18.3 17.8	12.9 15.0 16.6 15.4 14.5 14.9 15.0 16.0 17.5 18.0 16.9 17.0 15.6 15.8	14.2 16.1 17.1 16.6 15.5 15.2 16.1 17.2 18.7 19.3 17.4 17.7 17.4 16.4	16.5 16.0 17.2 18.1 19.0 19.7 20.1 20.0 19.5 20.4 20.9 22.0 22.5 22.3	15.8 15.3 15.8 17.2 17.8 18.5 19.4 19.1 19.0 19.1 20.1 20.4 21.9 21.8	16.3 15.6 16.4 17.5 18.3 19.1 19.8 19.6 19.2 19.8 20.5 21.3 22.2 22.1	24.0 25.1 25.3 24.9 24.2 25.5 24.9 24.1 23.7 24.4 24.9 24.6 23.6 24.1	21.8 24.0 24.4 24.2 21.2 23.7 24.1 22.8 22.5 22.7 23.2 22.5 21.6 22.2	24.3 22.2 23.0 24.5 24.6 22.6 24.7 23.5 23.1 23.4 24.0 23.5 22.6 23.0
11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.8 10.4 12.0 13.2 12.7 12.3 12.9 13.5 13.4 14.2 14.5 14.7 14.9 17.1 17.5	7.9 8.5 10.1 11.2 11.4 10.6 11.0 12.0 12.1 13.0 12.8 13.2 14.9 15.7 15.6 14.7 14.5	8.2 9.5 11.1 12.2 12.1 11.6 12.0 12.8 12.9 13.6 13.7 14.0 14.5 16.1 16.5 16.2 15.6 15.6 15.6 16.1	15.6 17.2 17.6 17.5 16.6 15.5 17.7 18.6 20.2 19.9 18.0 18.3 17.8 16.1 15.6 15.5 14.7	12.9 15.0 16.6 15.4 14.5 14.9 15.0 16.0 17.5 18.0 16.9 17.6 15.8 15.4 15.4	14.2 16.1 17.1 16.6 15.5 15.2 16.1 17.2 18.7 19.3 17.4 17.4 16.4 15.7	16.5 16.0 17.2 18.1 19.0 19.7 20.1 20.0 19.5 20.4 20.9 22.5 22.3 22.8 22.3 22.4 23.9 25.1	15.8 15.3 15.8 17.2 17.8 18.5 19.4 19.1 19.0 19.1 20.1 20.4 21.9 21.8 21.8 21.6 21.0 22.7	16.3 15.6 16.4 17.5 18.3 19.1 19.8 19.6 19.2 19.8 20.5 21.3 22.2 22.1 22.2 22.1 21.6 22.5 23.8	24.0 25.1 25.3 24.9 24.2 25.5 24.9 24.1 23.7 24.4 24.9 24.6 23.6 24.1 24.4	21.8 24.0 24.4 24.2 21.2 23.7 24.1 22.8 22.5 22.7 23.2 22.5 21.6 22.2 22.2 22.7 23.1 23.4	24.3 22.2 23.0 24.5 24.7 24.6 22.6 24.7 23.5 23.1 23.4 24.0 23.5 22.6 23.0 23.2 23.6 23.7 23.9

DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

08049500 West Fork Trinity River at Grand Prairie, TX--Continued

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	28.6 29.4 29.1 28.9 28.4	26.1 26.6 27.0 26.9 26.4	27.4 28.0 28.1 28.0 27.2	26.5 26.7 26.6 27.4 28.9	25.8 25.9 25.7 25.4 26.6	26.3 26.2 26.2 26.4 27.6	31.6 32.4 32.6 32.6 32.3	28.9 29.7 30.3 30.7 30.5	30.2 31.0 31.3 31.5 31.4	31.1 31.6 31.3 31.2 31.1	28.9 29.3 29.5 29.7 29.2	29.9 30.3 30.3 30.4 30.1
6 7 8 9 10	27.7 28.8 28.9 29.8 29.1	26.0 26.1 27.3 27.4 27.6	26.9 27.4 28.1 28.4 28.3	29.0 30.5 31.2 31.7 31.8	27.8 28.0 28.8 28.7 29.2	28.3 29.1 29.9 30.1 30.5	32.3 32.2 31.7 31.5 30.7	30.2 29.9 30.1 29.3 25.7	31.2 31.0 30.9 30.4 28.3	31.0  29.2 28.1 29.0	29.3  27.2 27.2 27.2	30.0  28.0 27.5 28.2
11 12 13 14 15	29.7 30.3 	27.9 27.9  	28.7 28.8  	32.1 30.9 31.2 31.4 29.4	25.7 25.7 28.7 28.9 26.9	30.4 28.5 29.9 30.1 28.7	27.6 29.4 30.6 29.9 28.8	26.1 26.7 28.1 28.3 27.2	26.9 27.9 29.3 29.1 28.1	29.7 29.1 29.7 30.1 29.5	27.4 28.1 28.0 28.2 28.3	28.4 28.6 28.8 29.1 28.9
16 17 18 19 20	28.4 29.3 29.8 30.4	26.5 27.3 27.8	27.8 28.5 29.0	29.1 28.7 30.0 31.2 31.9	28.1 27.3 27.9 28.4 29.0	28.6 28.0 29.0 29.8 30.3	30.0 30.7 31.2 31.4 31.7	27.5 28.5 29.0 29.3 29.5	28.6 29.6 30.1 30.3 30.5	28.9 29.2 29.3 28.7 28.1	27.7 27.3 27.7 27.5 26.6	28.3 28.3 28.5 28.1 27.3
21 22 23 24 25	30.2 30.8 30.8 30.8 30.9	28.5 28.4 28.2 28.6 28.1	29.2 29.4 29.6 29.7 29.7	32.0 32.2 32.7 32.6 32.9	29.7 30.0 30.4 30.7 30.9	30.8 30.9 31.3 31.5 31.7	31.6 31.8 32.3 32.4 32.3	29.7 29.8 30.1 30.3 30.4	30.5 30.7 31.0 31.2 31.2	27.5 27.3 26.8 26.3 26.6	25.4 25.5 24.9 24.4 24.4	26.5 26.4 25.8 25.3 25.4
26 27 28 29 30 31	30.2 30.6 30.2 29.2 28.1	28.5 28.0 28.3 26.6 26.5	29.1 29.1 29.2 28.1 27.7	32.6 31.7 31.2 30.1 30.2 30.9	30.6 29.9 29.3 29.1 28.0 28.5	31.4 30.8 30.1 29.4 29.2 29.6	30.9 30.1 29.9 30.0 30.2 30.5	28.5 27.3 28.1 28.2 28.2 28.2	29.9 28.8 28.8 29.0 29.1 29.3	27.4 27.9 28.3 28.7 28.8	25.0 25.2 26.0 26.4 26.8	26.0 26.4 27.0 27.4 27.6
MONTH				32.9	25.4	29.4	32.6	25.7	29.9			



TRINITY RIVER BASIN

# 08049500 West Fork Trinity River at Grand Prairie, TX--Continued

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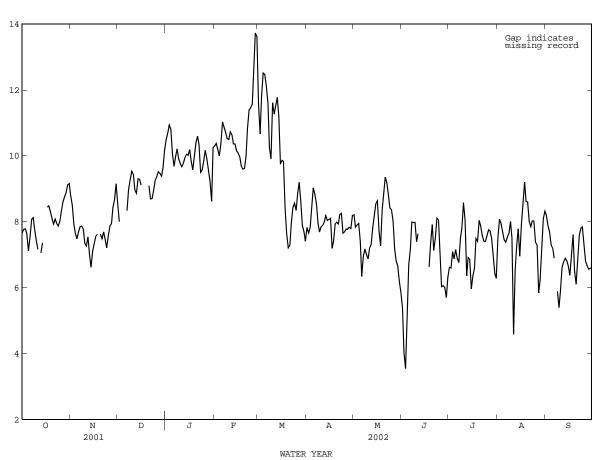
OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		Ι	DECEMBER			JANUARY	
1 2 3 4 5	8.3 8.5 8.5 8.2 7.5	7.1 7.3 7.2 7.1 6.9	7.7 7.8 7.8 7.6 7.1	9.6 9.1 8.6 8.3 8.1	8.2 8.1 7.4 7.1 7.0	8.8 8.5 7.9 7.6 7.5	8.8 8.4 	7.7	8.5 8.0 	11.2 11.2 11.7 11.8 11.0	10.2 10.4 10.4 9.9 9.4	10.5 10.7 10.9 10.8 10.1
7	8.3 8.7 8.7 8.2 8.0	7.0 7.6 7.7 7.5 7.0	7.5 8.1 8.1 7.8 7.4	8.4 8.5 8.5 8.4 7.6	7.2 7.4 7.4 7.4 6.9	7.7 7.9 7.9 7.8 7.4	8.7 9.6 9.8 9.9	7.8 8.5 8.8 9.3	8.3 9.0 9.3 9.5	10.3 10.7 10.7 10.4 10.5	9.2 9.4 9.7 9.3 9.1	9.7 10 10.2 9.9 9.8
11 12 13 14 15	8.8			7.8 7.7 7.4 6.8 7.4			9.6 9.3 9.5 9.5					
16 17 18 19 20	9.0 8.8 8.8 8.7	8.1 8.2 7.9 7.6		7.5 8.0 7.8		7.3 7.6 7.6	9.3   	8.8		11.1 10.3 9.9 11.0 11.2		
22 23 24	8.6 8.8 8.7 8.7	7.4 7.6 7.4 7.2 7.5	7.9 8.1 8.0 7.9 8.0	7.9 8.0 7.8 7.6 8.2	7.1 7.5 7.3 6.9 7.2	7.5 7.7 7.5 7.2 7.6	9.3 9.0 9.1 9.3 9.5	8.9 8.5 8.4 8.7 9.0				
26 27 28 29 30 31	9.1 9.2 9.4 9.5 9.9	7.7 8.1 8.2 8.4 8.5 8.6	8.3 8.6 8.7 8.9 9.1 9.2	8.7 8.3 9.0 9.2 9.4			9.6 9.9 9.7 9.8 10.1 10.8					
MONTH										11.8	8.3	10.0
11011111												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		MIN FEBRUARY			MARCH			APRIL			MAY	
	10.6 10.5	FEBRUARY 10.0 10.1 9.9			MARCH		7.9 7.8 8.1 9.0 9.1	APRIL		9.6 8.9 8.5 9.0 9.0	MAY	
DAY  1 2 3 4 5 6 7 8 9	10.6 10.5 10.5 10.2 10.9	10.0 10.1 9.9 9.8 9.7	10.3 10.4 10.2 10.0 10.4	13.8 12.3 13.3 14.2 14.0	MARCH 10.4 9.3 10.5 11.0 10.8	11.6 10.7 11.8 12.5 12.5		7.8 7.6 7.7 8.1 9.0	7.8 7.7 7.8 8.3 9.0	9.6 8.9 8.5 9.0 9.0	MAY 7.2 7.0 7.3 7.2 6.1	8.2 7.8 7.9 8.0 7.4
DAY  1 2 3 4 5 6 7 8 9 10 11 12	10.6 10.5 10.5 10.9 11.3 11.2 11.0 10.7 10.6	10.0 10.1 9.9 9.8 9.7	10.3 10.4 10.2 10.0 10.4 11.0 10.9 10.7 10.5		MARCH  10.4 9.3 10.5 11.0 10.8  10.4 9.8 9.4 8.4 9.5	11.6 10.7 11.8 12.5 12.5 12.1 11.6 10.3 9.9 11.6	7.9 7.8 8.1 9.0 9.1	7.8 7.6 7.7 8.1 9.0 8.8 8.2 7.7 7.6 7.8	7.8 7.7 7.8 8.3 9.0 8.8 8.6 8.0 7.7 7.8	9.6 8.9 8.5 9.0 9.0 6.7 7.1 7.3 7.2 7.6	MAY 7.2 7.0 7.3 7.2 6.1 6.2 6.7 7.1 6.9 6.6	8.2 7.8 7.9 8.0 7.4 6.3 7.0 7.2 7.0 6.9
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14	10.6 10.5 10.5 10.2 10.9 11.3 11.2 11.0 10.7 10.6	FEBRUARY  10.0 10.1 9.9 9.8 9.7 10.8 10.6 10.4 10.3 10.3 10.5 10.5 10.1 10.1	10.3 10.4 10.2 10.0 10.4 11.0 10.9 10.7 10.5 10.5	13.8 12.3 13.3 14.2 14.0 13.8 13.4 11.7 11.9 14.5	MARCH  10.4 9.8 10.4 9.8 9.4 8.4 9.5 10.0 9.4 9.7 9.1	11.6 10.7 11.8 12.5 12.5 12.1 11.6 10.3 9.9 11.6 11.3 11.5 11.8	7.9 7.8 8.1 9.0 9.1 9.0 8.9 7.9 7.9 8.0 8.3 8.3	7.8 7.6 7.7 8.1 9.0 8.8 8.2 7.7 7.6 7.8 7.8	7.8 7.7 7.8 8.3 9.0 8.8 8.6 8.0 7.7 7.8 7.9 8.0 8.2	9.6 8.9 8.5 9.0 9.0 6.7 7.1 7.3 7.2 7.6 7.4 7.6 8.0 8.5	MAY 7.2 7.0 7.3 7.2 6.1 6.2 6.7 7.1 6.9 6.6 6.9 7.2 7.6 8.0	8.2 7.8 7.9 8.0 7.4 6.3 7.0 7.2 7.0 6.9 7.2 7.3 7.8
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	10.6 10.5 10.5 10.2 10.9 11.3 11.2 11.0 10.7 10.6 11.0 10.8 10.6 10.4 10.4 10.3 10.1	FEBRUARY  10.0 10.1 9.9 9.8 9.7 10.8 10.6 10.4 10.3 10.5 10.5 10.1 10.1 9.9 9.6 9.4 9.2	10.3 10.4 10.2 10.0 10.4 11.0 10.9 10.7 10.5 10.5 10.7 10.6 10.4 10.2 10.1 10 9.7 9.6	13.8 12.3 13.3 14.2 14.0 13.8 13.4 11.7 11.9 14.5 12.6 14.6 14.4 13.8 11.2 11.9 11.5 10.0 8.2	MARCH  10.4 9.8 10.4 9.8 9.4 8.4 9.5  10.0 9.4 9.7 9.1 8.3 8.2 8.4 7.1 6.6	11.6 10.7 11.8 12.5 12.5 12.1 11.6 10.3 9.9 11.6 11.3 11.5 11.8 11.2 9.8 9.9 8.8 4.7.6	7.9 7.8 8.1 9.0 9.1 9.0 8.9 7.9 7.9 8.0 8.3 8.2 8.2 7.9 7.8	7.8 7.6 7.7 8.1 9.0 8.8 8.2 7.7 7.6 7.8 7.8 7.9 7.9 6.7 7.1	7.8 7.7 7.8 8.3 9.0 8.8 8.6 8.0 7.7 7.8 7.9 8.0 8.1 8.1 7.2 7.4 7.9	9.6 8.9 8.5 9.0 9.0 6.7 7.1 7.3 7.2 7.6 7.4 7.6 8.0 8.5 9.3	MAY 7.2 7.0 7.3 7.2 6.1 6.2 6.7 7.1 6.9 6.6 6.9 7.2 7.6 8.0 8.0 8.0 7.1 6.8 7.7	8.2 7.8 8.0 7.4 6.3 7.0 7.2 7.0 6.9 7.2 7.3 8.5 8.6 7.7 7.3 8.4
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.6 10.5 10.5 10.2 10.9 11.3 11.2 11.0 10.7 10.6 11.0 10.6 10.4 10.4 10.3 10.1 10.1 10.1	FEBRUARY  10.0 10.1 9.9 9.8 9.7 10.8 10.6 10.4 10.3 10.5 10.5 10.1 10.1 9.9 9.6 9.4 9.2 9.1 9.2 10.1 10.3 10.3	10.3 10.4 10.2 10.0 10.4 11.0 10.7 10.5 10.7 10.6 10.4 10.2 10.1 10 9.6 9.6	13.8 12.3 13.3 14.2 14.0 13.8 11.7 11.9 14.5 12.6 14.6 14.4 13.8 11.2 11.9 11.5 10.8 2.8 8.0	MARCH  10.4 9.3 10.5 11.0 10.8  10.4 9.8 9.4 8.4 9.5  10.0 9.4 9.7 9.1 8.3 8.2 8.4 7.1 6.6 6.9 7.1 7.4 8.3 8.3	11.6 10.7 11.8 12.5 12.5 12.1 11.6 10.3 9.9 11.6 11.3 11.5 11.8 11.2 9.8 9.9 9.8 8.4 7.2 7.3 8.0 8.6	7.9 7.8 8.1 9.0 9.1 9.0 8.9 7.9 7.9 8.0 8.3 8.2 8.2 7.9 7.8 8.1 8.1 8.1	7.8 7.6 7.7 8.1 9.0 8.8 8.2 7.7 7.6 7.8 7.8 7.9 7.9 6.7 7.1 7.8 7.9	7.8 7.7 7.8 8.3 9.0 8.8 8.6 8.0 7.7 7.8 7.9 8.0 8.1 8.1 7.2 7.4 7.9 8.0	9.6 8.9 8.5 9.0 9.0 6.7 7.1 7.3 7.2 7.6 7.4 7.6 8.0 8.5 9.3 9.5 8.6 7.9 9.9	MAY 7.2 7.0 7.3 7.2 6.1 6.2 6.7 7.1 6.9 6.6 6.9 7.2 7.6 8.0 8.0 8.0 8.1 6.8 7.7 8.0 8.3 8.2 7.7	8.2 7.8 8.0 7.4 6.3 7.0 7.2 7.0 6.9 7.2 8.5 8.6 7.7 7.3 8.8 9.4 9.2 8.8

08049500 West Fork Trinity River at Grand Prairie, TX--Continued

O XYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		٤	SEPTEMBE:	R
1 2 3 4 5	6.1 5.5 5.0 8.2 7.5	4.6 2.8 2.9 2.2 6.1	5.4 4.0 3.5 5.3 6.7	7.6 7.4 7.5 7.1 7.7	6.1 6.5 6.5 6.8	6.6 6.6 7.1 6.9 7.2	9.4 9.7 9.2 8.7 8.3	6.2 6.8 6.8 6.8	7.5 8.1 7.9 7.7 7.5	9.7 9.4 9.1 8.5 8.5	7.0 6.8 6.4 6.3 6.2	8.2 7.9 7.7 7.3 7.2
6 7 8 9 10	8.0 9.6 9.2 9.3 8.2	6.6 6.9 7.0 6.9 6.7	7.2 8.0 8.0 8.0 7.4	7.3 7.4 8.9 9.2 10.8	6.6 6.4 6.7 6.9 7.0	6.9 6.8 7.5 7.8 8.6	8.2 8.5 8.6 8.8 8.3	6.8 7.0 6.9 7.4 5.3	7.4 7.5 7.6 8.0 7.5	7.9  6.4 5.9 6.4	5.9 5.9 5.5 5.2 5.4	6.9  5.9 5.4 5.9
11 12 13 14 15	9.4	6.5   	7.6   	9.5 8.1 8.2 7.5 7.0	6.9 5.3 6.0 6.3 5.4	8.1 6.4 6.9 6.9	5.7 7.0 8.0 8.6 7.9	2.6 5.7 6.9 7.3 6.5	4.6 6.5 7.3 7.8 7.0	8.2 7.7 8.1 8.0 7.7	5.7 5.8 5.9 5.8 5.8	6.6 6.8 6.9 6.8 6.7
16 17 18 19 20	 7.7 9.1 9.5	 6.0 6.3 6.7	 6.6 7.4 7.9	7.4 7.4 8.5 8.8 10.4	5.5 5.9 6.7 6.5 6.5	6.4 6.6 7.5 7.4 8.0	9.6 9.5 10.7 9.9 9.8	6.8 7.8 8.1 7.5 7.4	7.9 8.6 9.2 8.6 8.6	7.1 8.4 9.5 7.9 7.0	5.8 6.1 6.3 5.9 5.6	6.4 7.0 7.6 6.5 6.1
21 22 23 24 25	8.2 9.6 10.0 9.8 8.6	6.5 6.0 6.7 6.6 4.4	7.1 7.5 8.1 8.1 7.1	9.6 9.0 8.8 8.7 9.1	6.4 6.5 6.3 6.3	7.9 7.6 7.4 7.4 7.6	8.9 8.7 9.0 8.9 8.1	7.0 6.9 7.2 7.2 6.7	8.0 7.9 8.0 8.0 7.4	8.0 9.3 9.4 8.8 8.0	6.1 6.5 6.6 6.9 6.7	6.8 7.6 7.8 7.8 7.3
26 27 28 29 30 31	7.7 6.4 6.9 6.0 7.4	4.1 5.7 5.5 5.2 5.5	6.0 6.1 6.0 5.7 6.3	9.5 9.1 8.7 7.4 7.1 7.1	6.6 6.6 6.5 5.0	7.8 7.7 7.5 7.0 6.4 6.3	8.1 7.1 6.6 8.1 9.4 9.9	7.0 4.9 5.9 6.5 6.9 7.2	7.3 5.8 6.2 7.2 8.1 8.3	7.3 7.4 7.3 7.3 7.4	6.3 6.1 6.0 6.1 6.0	6.8 6.7 6.6 6.6 6.6
MONTH				10.8	5.0	7.2	10.7	2.6	7.6		5.2	



DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER

#### 08049580 Mountain Creek near Venus, TX

LOCATION.--Lat 32°29'27", long 97°07'22", Johnson County, Hydrologic Unit 12030102, on right bank on upstream side of highway embankment near right end of bridge on Farm Road 157, 3.0 mi upstream from Grassy Creek, 3.2 mi upstream from Reece Branch, and 3.9 mi north of Venus.

DRAINAGE AREA.--25.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1985 to Sept. 1987, Oct. 1987 to Sept. 2001 (peaks above base discharge), Oct. 2001 to current year. Water-quality records.--Chemical data: Dec. 1985 to Sept. 1993.

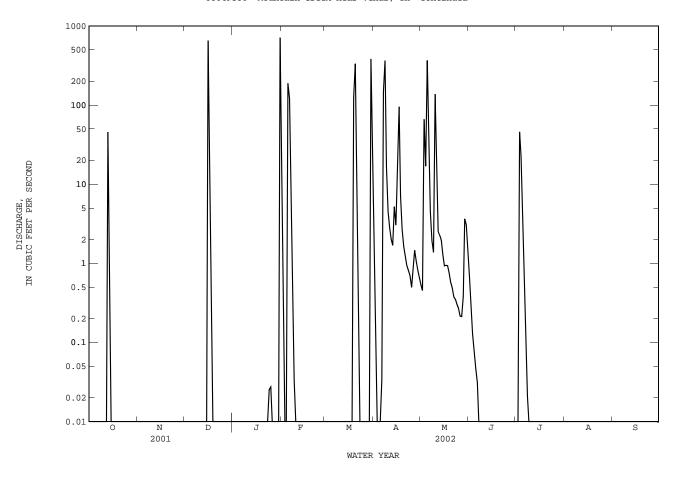
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 580.49 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times.

		DISCHA	ARGE, CUB	IC FEET PI		, WATER YI LY MEAN VA		ER 2001 TO	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0 00	0.00 0.00 0.00 0.00 0.00	2.8 0.07 0.00 0.00	0.53 0.45 66 17 366	0.66 0.29 0.13 0.08 0.05	0.00 0.00 46 23 2.4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	189 122 24 1.1 0.03 0.00 0.00	0.00 0.00 0.00 0.00	0.03 148 365 16 4.5	27 4.6 1.9 1.4 137	0.03 0.0 0.00 0.00 0.00	0.52 0.11 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	0.00 0.00 45 0.16 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 00	0.00 0.00 0.00 0.00	2.8 2.0 1.7 5.2 3.0	12 2.5 2.3 1.9 1.3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	654 75 1.3 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 127 333	20 95 7.0 2.7 1.6	0.93 0.94 0.93 0.75 0.58	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.03 0.03	0.00 0.00 0.00 0.00	9.4 0.12 0.00 0.00 0.00	1.2 0.94 0.81 0.70 0.50	0.49 0.38 0.35 0.31 0.27	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 711	0.00 0.00 0.00 	0.00 0.00 0.00 0.00 382 92	0.92 1.5 1.1 0.81 0.65	0.22 0.21 0.38 3.6 3.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	45.16 1.457 45 0.00 90	0.00 0.000 0.00 0.00 0.00	730.30 23.56 654 0.00 1450	711.06 22.94 711 0.00 1410	347.22 12.40 189 0.00 689		686.53 22.88 365 0.00 1360	656.52 21.18 366 0.21 1300	1.24 0.041 0.66 0.00 2.5	72.05 2.324 46 0.00 143	0.00 0.000 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00
STATIS	rics of M	ONTHLY ME	EAN DATA	FOR WATER	YEARS 198	36 - 20021	n, BY WAT	ER YEAR (V	VY)			
MEAN MAX (WY) MIN (WY)	13.51 140 1992 0.000 1991	1999		1992		21.07 66.8 1995 0.032 1996	23.92 80.7 1997 0.010 1994	23.16 71.8 1995 0.041 1998	15.80 54.0 1995 0.000 1996	1.084 8.77 1991 0.000 1993	3.083 24.0 1991 0.000 1986	3.525 29.8 1991 0.000 1987
SUMMAR	Y STATIST	ICS			FOR 2	2002 WATER	R YEAR			WATER YEA	RS 1986 -	2002h
LOWEST HIGHES' LOWEST ANNUAL MAXIMUI MAXIMUI ANNUAL 10 PERO 50 PERO		EAN EAN AN Y MINIMUN OW AGE AC-FT) EDS EDS	4		24	0.00 0 0.00 0	Jan 31 Oct 1 Oct 1 Mar 4 Mar 4			15.8 43.1 1.8 3340 0.0 0.0 11470 19 0.0	May 17 00 Oct 1 00 Oct 1	1985

h See PERIOD OF RECORD paragraph.

# 08049580 Mountain Creek near Venus, TX--Continued



#### 08049700 Walnut Creek near Mansfield, TX

LOCATION.--Lat 32°34'51", long 97°06'06", Tarrant County, Hydrologic Unit 12030102, on right bank at downstream side of bridge on county road, 2.6 mi northeast of Mansfield, 3.3 mi downstream from Texas and New Orleans Railroad Co. bridge, and 10.2 mi upstream from mouth.

DRAINAGE AREA.--62.8 mi<sup>2</sup>.

PERIOD OF RECORD. -- Oct. 1960 to current year.

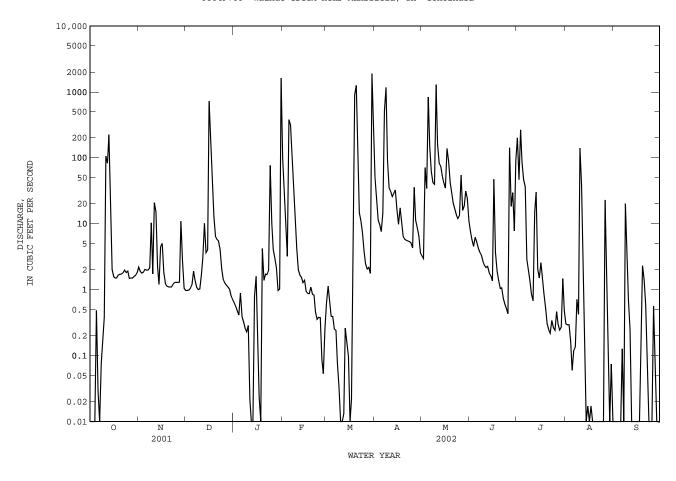
Water-quality records.--Chemical data: Dec. 1985 to Sept. 1993. Biochemical data: Dec. 1985 to Sept. 1993.

GAGE.--Water-stage recorder. Datum of gage is 531.08 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 0.00 2.2 0.97 0.64 98 0.63 50 3.3 7.5 201 0.30 0.00 2 1.1 3.0 0.00 1.9 0.97 0.56 24 22 5.7 47 0.29 0.00 8.9 3 0.00 1.8 0.98 0.48 11 4.5 264 0.29 0.00 0.00 1.8 1.0 0.41 3.2 0.40 9.8 6.2 84 0.16 0.00 5 0.48 2.0 1.2 0.89 379 0.39 7.6 835 5.3 46 0.06 0.00 6 7 0.03 2.0 1.9 0.39 314 0.25 14 148 4.2 36 0.12 0.00 2.0 1.4 0.32 91 31 0.24 62 42 3.7 2.9 0.13 520 0.00 20 8 1160 1.0 0.16 10 13 0.03 0.42 1.7 10 0.38 1.0 0.29 4 2 0.00 35 1290 2.3 0.85 140 0.69 21 1.7 2.0 0.00 159 2.2 0.68 0.25 11 106 38 15 2.2 3.1 10 0.00 1.7 1.5 0.01 84 75 2.2 0.00 12 83 26 15 1.4 13 226 29 30 0.17 1.2 33 17 1.6 15 2 0 4.4 4.0 1.6 1.4 0.10 16 42 1.4 1.5 0.02 0.00 5.0 726 0.27 0.94 0.00 9.8 47 2.6 0.00 0.00 16 1.5 1.5 1.8 0.87 3.6 1.9 1.4 0.02 0.00 17 189 0.02 0.02 17 139 18 38 0.00 9.5 11 89 19 13 4.2 905 6.5 0.54 0.00 20 1 7 1.1 6.5 1 4 0.86 1250 5.8 30 1 0 0.30 0.00 1 4 21 1.7 1.1 5.8 1.7 0.82 79 5.6 21 1.1 0.25 0.00 0.57 1.8 1.1 1.7 1.9 0.46 5.5 5.4 0.22 22 5.5 15 17 0.73 0.00 0 08 23 4.0 14 0.60 0.00 0.00 11 5.1 24 1.8 1.3 2.1 0.38 12 0.51 0.27 0.00 0.00 10 25 1 9 1 3 15 0.38 3 8 4 3 13 0 43 0 24 0 00 0 0 26 1.5 1.3 1.3 4.1 0.09 2.5 36 55 142 0.47 23 0.56 1.5 1.5 0.30 1.9 27 1.3 1.2 3.0 0.05 2.1 11 16 18 0.10 28 11 1.1 2.1 0.25 2.2 8.8 30 0.08 0.0 ⊥⊥ 2.7 29 1.6 1.0 0.97 1.8 6.6 31 7.8 0.27 0.00 0.00 ---0.82 1880 89 30 1.6 1.1 1.0 3.6 24 1.5 0.07 0.00 1620 317 0.48 TOTAL 461.83 105.0 1031.45 1736.25 981.62 3509.3 744.72 207.14 30.81 4490.45 2199.4 399.67 24.02 6.682 1.027 14.90 3.500 33.27 56.01 35.06 73.31 113.2 13.32 MEAN 144.9 726 0.71 MAX 226 21 1620 379 1880 1160 1290 142 264 140 20 1.1 0.05 0.22 0.00 0.00 0.00 0.43 0.00 0.00 3.0 MIN 3.6 3440 1950 916 8910 1480 411 AC-FT 2050 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY) 17.65 10.15 19.87 31.21 38.27 51.12 MEAN 9.144 25.32 29.93 5.000 3.640 6.221 272 164 2001 326 64.5 174 378 1989 300 57.1 67.4 1973 173 184 MAX 55.9 1992 1997 1990 1986 1992 1977 (WY) 1992 1975 2001 MTN 0.000 0.000 0.000 0.000 0.014 0.13 0.40 0.074 0.030 0.000 0.000 0.000 1964 1961 1964 1981 1981 1963 1978 1962 1963 1964 1961 1971 (WY) SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1961 - 2002 ANNUAL TOTAL 12246 85 15897 64 ANNUAL MEAN 20.59 33.55 43.56 HIGHEST ANNUAL MEAN 82.2 1992 LOWEST ANNUAL MEAN 1.34 1978 0.00 May 17 1989 0.00 Oct 1 1960 HIGHEST DATLY MEAN 2010 1880 7900 Feb 16 Mar 30 LOWEST DAILY MEAN 0.00 Jan 1 0.00 Oct 0.00 Oct 1 1960 0.00 Oct 15 1960 ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW 0.00 Aug 18 0.00 Jan 1 22800 3480 Mar 30 May 17 1989 MAXIMUM PEAK STAGE May 17 1989 23.23 33.77 Mar 30 31530 14910 ANNUAL RUNOFF (AC-FT) 24290 10 PERCENT EXCEEDS 28 15 54 50 PERCENT EXCEEDS 0.29 90 PERCENT EXCEEDS 0 00 0.00 0.00

# 08049700 Walnut Creek near Mansfield, TX--Continued



#### 08049800 Joe Pool Lake near Duncanville, TX

LOCATION.--Lat 32°38'36", long 97°00'03", Dallas County, Hydrologic Unit 12030102, in control room of outlet works tower located 285 ft upstream from centerline of Joe Pool Dam on Mountain Creek, 0.7 mi downstream from Walnut Creek, 0.7 mi upstream from bridge over Mountain Creek on Camp Wisdom Road, 1.0 mi downstream from John Penn Branch, 5.5 mi west of water towers in downtown Duncanville, 7.1 mi upstream from Mountain Creek Dam on Mountain Creek, and 11.2 mi upstream from mouth.

DRAINAGE AREA. -- 232 mi<sup>2</sup>.

PERIOD OF RECORD.--Jan. 1986 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Water-quality records.--Chemical data: Jan. 1986 to Sept. 1993. Biochemical data: Jan. 1986 to Sept. 1993.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 22,360 ft long, including a 50-foot uncontrolled broad-crested concrete spillway. Impoundment of water began Jan. 7, 1986, after closure of the dam was completed in Dec. 1985. The flood-control outlet works consist of a 10.5-foot diameter conduit that is controlled by two 4.75- by 10.5-foot slide gates. Above an elevation of 541 ft, water will flow over a 50-foot-long uncontrolled broad-crested concrete spillway located 0.5 mi to left of the outlet works tower. The low-flow outlet works consist of four 3- by 5-foot slide gates having invert elevations at 486.0, 495.0, 504.0, and 513.0 ft that open to a wet-well. Discharge from the wet-well to the 10.5-foot-diameter conduit is controlled by a 2- by 4-foot gate with invert at elevation 483.0 ft. A low flow bypass system consisting of a turbine pump and 10-inch-diameter piping is also available for use if needed. The lake was built for water supply, conservation, and flood control. Conservation pool storage is 176,900 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	564.5
Crest of spillway	541.0
Top of conservation pool	522.0
Lowest gated outlet	

COOPERATION.--Capacity Table No. 2 furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 274,600 acre-ft, May 20, 1990, elevation 533.21 ft; minimum contents after initial filling, 75,910 acre-ft, Jan. 24, 1989, elevation, 507.84 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 191,200 acre-ft, May 10, elevation, 523.86 ft; minimum contents, 170,100 acre-ft, Sept. 30, elevation, 521.08 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177600	176600	174700	178900	187800	177300	190300	180500	180300	179500	178200	174300
2	177400	176500	174600	178900	188400	177200	189300	180400	180200	180200	178100	174100
3	177300	176500	174600	178800	188300	177200	186800	180900	180100	180600	178000	174000
4	177100	176300	174600	178600	186500	177100	184700	181300	179900	181000	177800	173900
5	177100	176300	174500	178600	184800	177000	182500	183900	179800	181100	177700	173700
6	177000	176200	174500	178500	185400	177000	181300	186500	179800	181500	177400	173500
7	176800	176100	174500	178400	183900	177000	181200	186700	179700	181500	177200	173300
8	176600	176000	174400	178400	181600	177000	186700	186600	179700	181500	177100	173300
9	176600	175900	174300	178300	180500	176800	188200	186300	179500	181400	177000	173400
10	176500	175900	174200	178100	179300	176800	188500	190000	179400	181300	177300	173300
11 12 13 14 15	177000 177400 178900 179200 179100	176100 176400 176400 176300 176300	174200 174200 174300 174400 174400	178000 178000 177900 177700	178600 178200 178000 178100 178000	176800 176800 176800 176800 176800	188000 187200 186500 185800 185200	190600 189200 187900 186500 184900	179200 179200 179100 179100 179000	181200 181000 180900 e180800 e180800	177900 177800 177700 177400 177200	173200 173200 173000 172900 172800
16	178800	176300	179400	177600	178000	176700	184400	183400	179200	e180800	177000	172600
17	178600	176200	184200	177500	178000	176700	184200	182500	179200	180800	176800	172400
18	178500	176200	184900	177300	178000	176700	183800	182300	179100	180800	176600	172300
19	178200	176200	185100	177300	178100	177900	183000	181900	178900	180800	176500	172200
20	178200	176100	185000	177200	178000	185200	182200	181500	178800	180700	176200	172100
21	178100	175900	184200	177100	177900	186800	181400	181100	178700	180500	176100	171900
22	178000	175700	183500	177000	178000	186800	180500	180700	178600	180400	175900	171700
23	177900	175700	182800	177000	178000	185500	180200	180500	178400	180200	175700	171400
24	177800	175600	182000	177400	177900	183700	180000	180400	178300	179900	175500	171100
25	177700	175400	181200	177800	177800	181800	179600	180400	178100	179700	175200	171000
26 27 28 29 30 31	177500 177300 177100 176900 176800 176600	175200 175000 174800 174900 174800	180400 179900 179600 179300 179300 179200	177700 177700 177600 177600 177700 183700	177400 177400 177300 	180000 179000 178500 178400 184200 189500	179800 180100 180200 180300 180400	180300 180200 180200 180400 180400 180400	178100 178600 178500 178500 178600	179600 179300 179000 178800 178700 178500	175100 175100 175000 174900 174700 174400	170800 170700 170500 170300 170200
MEAN	177600	175900	178300	178100	180300	179400	183700	183200	179100	180400	176600	172400
MAX	179200	176600	185100	183700	188400	189500	190300	190600	180300	181500	178200	174300
MIN	176500	174800	174200	177000	177300	176700	179600	180200	178100	178500	174400	170200
(+)	521.96	521.72	522.30	522.89	522.06	523.65	522.46	522.46	522.22	522.21	521.66	521.09
(@)	0	-1800	+4400	+4500	-6400	+12200	-9100	0	-1800	-100	-4100	-4200

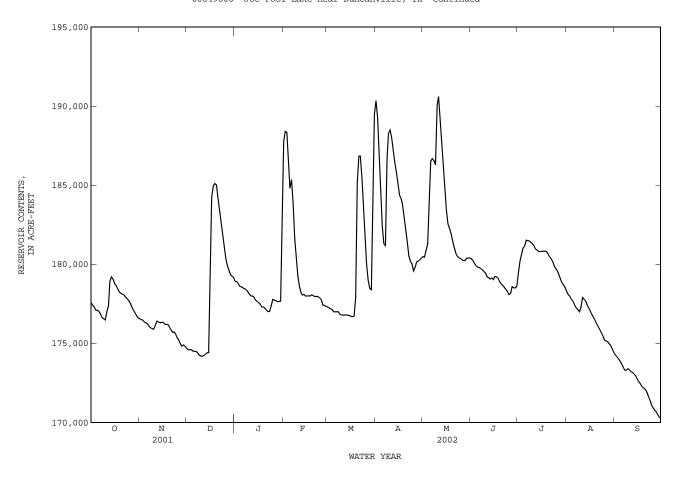
CAL YR 2001 MAX 208100 MIN 172100 (@) +4000 WTR YR 2002 MAX 190600 MIN 170200 (@) -6400

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08049800 Joe Pool Lake near Duncanville, TX--Continued



#### 08050050 Mountain Creek Lake near Grand Prairie, TX

LOCATION.--Lat 32°43'55", long 96°56'35", Dallas County, Hydrologic Unit 12030102, at right end of spillway in Mountain Creek Dam on Mountain Creek, 2.5 mi upstream from Texas and Pacific Railway Co. bridge, and 3.7 mi southeast of Grand Prairie.

DRAINAGE AREA. -- 295 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1960 to current year.
Water-quality records.--Chemical data: Oct. 1969 to Sept. 1985.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 21, 1960, nonrecording gage at powerplant at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 5,800 ft long, including a controlled spillway with six 34 x 27 ft tainter gates. The dam was completed in Dec. 1936 and deliberate impoundment began on Mar. 24, 1937. The lake was built and is operated by Dallas Power and Light Co. to supply cooling water for their generating plant. Dry weather conservation pool storage is 20,776 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	467.0
Top of gates	
Top of dry weather conservation pool	457.0
Top of wet weather conservation pool	456.0
Crest of spillway (sill of tainter gates)	431.0

COOPERATION.--Capacity Table No. 1 was provided by the Dallas Power and Light Co., and was replaced by Capacity Table No. 2, furnished by TXU Electric of Dallas, and put into effect Oct. 1, 2000.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 28,430 acre-ft, Mar. 13, 1995, elevation 458.82 ft; minimum contents, 14,120 acre-ft, Oct. 18, 1972, elevation, 453.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 22,870 acre-ft, Jan. 31, elevation, 457.78 ft; minimum contents, 19,000 acre-ft, Sept. 18, elevation, 456.28 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

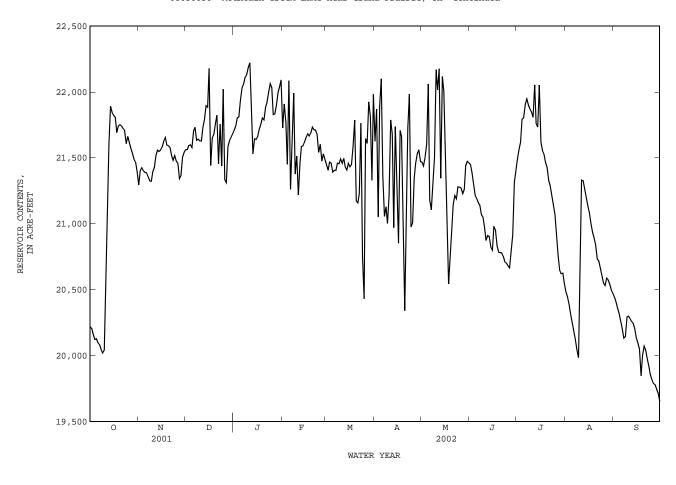
	DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	20220	21290	21560	21710	21730	21440	21630	21470	21450	21490	20480	20450	
2	20200	21400	21560	21740	21910	21410	21870	21440	21390	21560	20440	20410	
3	20160	21420	21590	21800	21770	21470	21050	21500	21300	21620	20390	20360	
4	20120	21400	21600	21810	21450	21460	21890	21610	21220	21790	20310	20320	
5	20130	21390	21580	21940	22080	21390	22100	22060	21190	21800	20250	20260	
6	20100	21390	21700	22030	21260	21410	21360	21180	21160	21900	20190	20210	
7	20080	21360	21730	22060	21690	21400	21050	21110	21140	21950	20120	20130	
8	20040	21330	21630	22110	21990	21460	21130	21300	21070	21900	20040	20140	
9	20020	21320	21640	22130	21380	21460	21000	21500	21050	21870	19980	20290	
10	20040	21390	21630	22190	21510	21490	21210	22170	20970	21850	20470	20300	
11	20410	21430	21630	22220	21220	21460	21790	22020	20870	21810	21330	20280	
12	20820	21520	21730	21940	21460	21500	21680	22180	20910	22050	21330	20260	
13	21600	21560	21790	21530	21590	21430	20970	21340	20900	21760	21260	20240	
14	21890	21550	21900	21640	21590	21410	21740	22120	20820	21730	21210	20200	
15	21840	21560	21880	21640	21620	21460	21280	22010	20800	22050	21140	20130	
16	21820	21580	22180	21660	21660	21430	20850	21500	20980	21620	21080	20100	
17	21810	21630	21440	21720	21680	21450	21710	21000	20950	21550	21000	20050	
18	21690	21650	21650	21750	21670	21590	21660	20540	20830	21530	20930	19840	
19	21740	21600	21680	21800	21690	21790	20850	20750	20780	21460	20900	20000	
20	21750	21590	21760	21790	21730	21170	20340	20960	20780	21420	20840	20070	
21	21740	21580	21820	21880	21710	21160	20950	21150	20780	21330	20730	20040	
22	21720	21520	21450	21920	21710	21230	21730	21220	20750	21290	20720	19970	
23	21710	21480	21760	22000	21680	21760	21980	21190	20710	21220	20670	19920	
24	21610	21520	21440	22060	21540	20750	20980	21280	20700	21140	20610	19850	
25	21660	21470	22020	22030	21600	20430	21000	21280	20680	21070	20550	19820	
26	21610	21460	21330	21830	21470	21650	21340	21270	20670	20900	20530	19790	
27	21570	21340	21310	21830	21530	21610	21460	21230	20780	20770	20590	19780	
28	21530	21360	21590	21900	21490	21920	21530	21260	20920	20650	20570	19740	
29	21490	21500	21630	22000		21810	21560	21440	21320	20620	20540	19710	
30	21470	21540	21650	22040		21330	21470	21470	21390	20620	20500	19650	
31	21390		21680	22090		21980		21460		20550	20470		
MEAN	21100	21470	21660	21900	21620	21440	21370	21420	20980	21450	20650	20080	
MAX	21890	21650	22180	22220	22080	21980	22100	22180	21450	22050	21330	20450	
MIN	20020	21290	21310	21530	21220	20430	20340	20540	20670	20550	19980	19650	
(+)	457.23	457.28	457.34	457.49	457.26	457.45	457.26	457.26	457.23	456.91	456.88	456.54	
(@)	+1160	+150	+140	+410	-600	+490	-510	-10	-70	-840	-80	-820	

CAL YR 2001 MAX 22380 MIN 17850 (@) +580 WTR YR 2002 MAX 22220 MIN 19650 (@) -580

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08050050 Mountain Creek Lake near Grand Prairie, TX--Continued



#### 08050100 Mountain Creek at Grand Prairie, TX

LOCATION.--Lat 32°44′51", long 96°55′32", Dallas County, Hydrologic Unit 12030102, on roadway embankment at upstream right end of downstream bridge on Jefferson Street, 1,000 ft upstream from bridge on U.S. Highway 80, 1.2 mi upstream from Texas and Pacific Railroad Company. bridge, 1.5 mi downstream from Mountain Creek Lake Dam, and 4.4 mi east of Grand Prairie.

DRAINAGE AREA. -- 298 mi<sup>2</sup>.

PERIOD OF RECORD. -- Oct. 1960 to current year.

90 PERCENT EXCEEDS

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 404.31 ft above NGVD of 1929. Prior to Dec. 19, 1984, at datum 3.0 ft higher. Satellite telemeter at station.

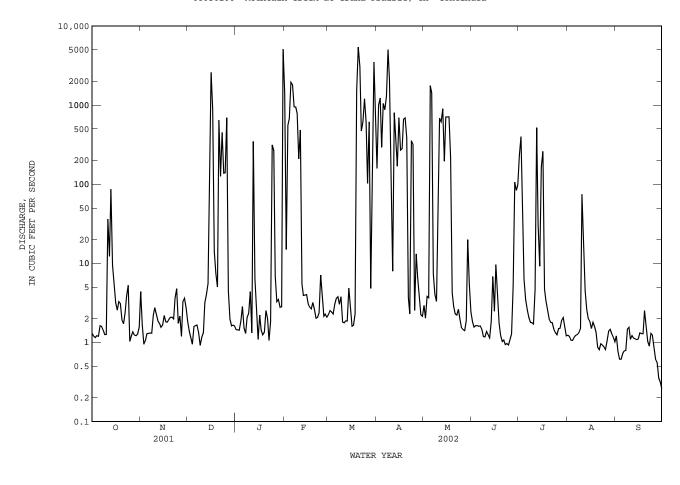
REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1960, at least 10% of contributing drainage area has been regulated. No known diversions.

DISCHARGE FROM DCP. CUBIC FEET PER SECOND. WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2.9 1.2 1.2 4.4 1.8 1.4 1460 2.2 158 1.8 233 2 1.2 1.4 2.5 998 1.6 1.6 1.4 15 400 3.8 3.7 1.1 0.95 1.1 1.4 2.4 1230 1.6 23 1.1 0.61 1.2 1.1 0.95 1.8 674 2.3 293 1.6 6.3 1.1 0.61 2.8 1760 5 1.2 1.3 1950 1050 1.6 1.2 1.6 3.0 3.5 0.72 1.3 1.2 6 7 1 6 1.6 1 5 1810 3.6 275 1420 1.6 2.6 0.78 1.6 2.1 1.7 1.5 1.3 7.3 950 3.8 1290 0.79 1.3 1.3 947 4.0 1.2 1.8 8 1.4 2.1 3.0 5010 1.5 1.3 2.2 0.92 2 3 784 3.8 2050 3.3 17 1 2 1.8 1.5 1.6 10 1.3 4.4 1.4 74 209 61 1.1 1.2 11 36 2 3 1 3 1.3 484 1 8 7 9 683 1.3 4.6 20 1 2 12 12 1.9 3.2 5.5 1.9 801 1.1 518 4.5 615 1.1 4.0 6.4 3.9 1.9 362 899 1.8 13 86 31 1.1 1.5 1.7 2.4 6.8 9.2 14 9 5 5.5 4 0 4 9 168 195 2 0 1 1 5.4 223 4.0 710 1.9 1.1 15 2.8 694 165 707 2.2 2590 2 2 3 1 9 6 261 1 5 16 3 1 1 6 270 1 3 4.7 17 2.6 1.8 891 1.4 2.8 1.6 282 713 4.0 1.8 1.3 18 3.3 1.8 14 1.2 2.6 2.3 662 217 1.8 3.4 19 3 1 1.9 7 4 1.3 3.2 1530 687 4.3 1 2 2.6 1 3 2 5 2.0 5.0 2.5 2.6 2.9 1.0 20 1.9 2.1 5410 0.87 1.6 384 3.7 2.3 642 2 0 0.81 21 1 7 2 1 2 0 3060 1 1 1 0 1 8 22 2.4 2.0 2.1 0.94 126 1.1 470 1.8 0.96 0.90 23 3.9 3.7 452 1.8 2.4 614 355 2.6 0.96 1.5 0.93 1.3 313 2 0 24 5 3 4.8 138 7 1 1200 320 0 93 1 3 0.88 1 2 1.0 1.5 25 139 26 1.2 2.1 692 6.8 2.1 102 13 1.4 1.3 1.5 1.0 0.61 27 1.4 1.2 3.3 2.3 612 6.7 1.4 5.2 28 1.2 3.3 2.0 3.5 2.1 4.8 3.8 1.9 106 1.9 1.5 0.35 535 1.2 2.2 20 29 3.6 1.6 2.8 83 2.1 1.3 0.32 30 1.3 2.7 1.6 2.8 \_\_\_ 3500 2.1 5.4 1.5 1.2 31 1.6 1.6 5090 956 2.4 1.2 1.0 TOTAL 198.3 64.25 5958.27 6080.3 9893.7 18643.0 18044.2 8013.3 344.73 1694.6 134.96 30.63 MEAN 6.397 2.142 192.2 196.1 353.3 601.4 601.5 258.5 11.49 54.66 4.354 1.021 5410 4.8 2590 5090 5010 86 1950 1760 106 518 74 MAX 2.5 1.0 1.2 0.81 0.95 0.92 1.1 2.0 0.93 0.26 MIN 2.1 AC-FT 393 127 11820 12060 19620 36980 35790 15890 684 3360 268 61 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY) MEAN 67.75 66.99 105.7 103.3 171.3 233.2 217.1 285.5 145.8 32.98 9.008 23.00 88.6 MAX 785 1286 1102 1483 976 1104 1170 1941 1028 511 214 2001 1974 (WY) 1992 1972 1992 1977 1966 1969 1990 1989 1962 2001 0.17 0.22 0.30 0.26 0.11 0.30 0.91 0.68 0.50 0.21 0.16 0.36 MIN 1989 1964 1976 1976 1964 1976 1987 1984 1971 1972 1972 1972 (WY) FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR SUMMARY STATISTICS WATER YEARS 1961 - 2002 69100.24 ANNUAL TOTAL 80611.96 ANNUAL MEAN 220.9 189.3 121.5 HIGHEST ANNUAL MEAN 506 1992 LOWEST ANNUAL MEAN 4.39 1988 24700 HIGHEST DAILY MEAN 8570 Feb 16 5410 Mar 20 May 0.15 May 25 0.26 Sep 30 LOWEST DAILY MEAN 0.00 Jan 25 1964 ANNUAL SEVEN-DAY MINIMUM 0.02 Dec 23 1983 0.49 Jul 17 0.59 Sep 24 MAXIMUM PEAK FLOW 8430 Jan 31 38100 Apr 19 25.12 Dec 20 1991 19 93 Jan 31 MAXIMUM PEAK STAGE 159900 88040 137100 ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 626 2 0 50 PERCENT EXCEEDS 2 2 1 3 0.58

1.1

0.34

# 08050100 Mountain Creek at Grand Prairie, TX--Continued



## 08050400 Elm Fork Trinity River at Gainesville, TX

LOCATION.--Lat 33°37'27", long 97°09'22", Cooke County, Hydrologic Unit 12030103, on downstream right bank at end of bridge on Farm Road 51, 31 ft downstream from centerline of road, 0.6 mi west of Cooke County courthouse in Gainesville, 1.0 mi upstream from Interstate Highway 35, and 1.2 mi downstream from Dozier Creek.

DRAINAGE AREA. -- 174 mi<sup>2</sup>.

PERIOD OF RECORD. -- Oct. 1985 to current year.

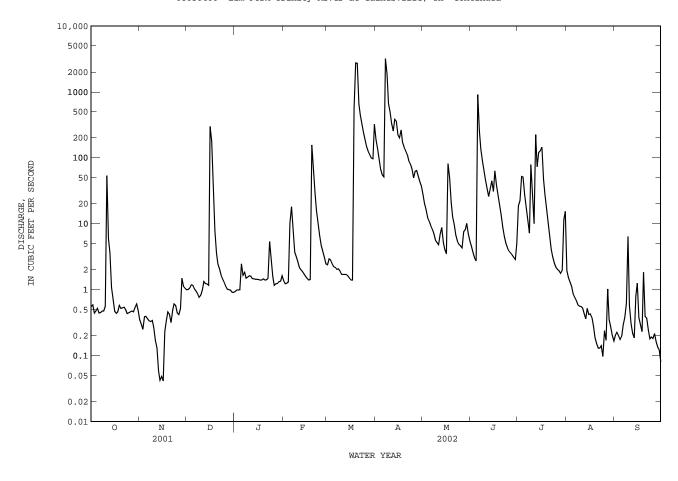
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 700.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct. 1981 reached a peak stage of 28.1 ft, from information furnished by an employee of the Gainesville Department of Public Works.

		DISCHARGE	FROM DCP,	CUBIC FEE		COND, WA Y MEAN V		OCTOBER 20	01 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.55 0.59 0.44 0.47 0.52	0.35 0.30 0.25 0.39 0.39	0.99 1.0 1.1 1.2	0.94 0.99 0.99 0.99 2.5	1.4 1.2 1.3 1.3	2.4 2.9 2.8 2.5 2.2	189 137 93 67 55	27 20 16 12 11	4.5 3.7 3.0 2.7 914	19 22 52 51 28	1.9 1.5 1.3 1.1 0.87	0.20 0.23 0.20 0.18 0.20
6 7 8 9	0.44 0.45 0.48 0.47 0.56	0.36 0.34 0.33 0.34 0.27	1.0 0.96 0.87 0.77 0.82	1.6 1.8 1.5 1.5	18 8.1 3.7 3.2 2.7	2.2 2.0 2.1 1.9 1.7	51 3190 1870 669 497	9.4 8.3 7.0 5.6 5.2	259 137 90 64 45	17 11 7.2 79 25	0.77 0.69 0.59 0.56 0.56	0.29 0.38 0.62 6.4 0.57
11 12 13 14 15	54 5.9 3.7 1.1 0.72	0.17 0.13 0.06 0.04 0.05	1.00 1.3 1.2 1.2	1.6 1.5 1.5 1.4	2.2 2.0 1.9 1.7	1.7 1.7 1.7 1.6 1.5	328 256 383 359 224	4.8 6.9 8.7 5.2 4.1	35 26 34 45 31	10 224 73 121 128	0.53 0.43 0.36 0.52 0.42	0.31 0.22 0.19 0.80 1.2
16 17 18 19 20	0.47 0.44 0.46 0.58 0.52	0.04 0.23 0.34 0.46 0.42	299 182 33 7.9 3.6	1.4 1.4 1.4 1.5	1.5 1.4 1.4 156 74	1.4 1.4 557 2760 2720	201 265 171 145 128	3.5 82 50 21 13	63 38 28 19 13	145 48 28 17 11	0.43 0.38 0.27 0.19 0.15	0.37 0.29 0.23 1.8 0.39
								9.7 6.7 5.4 4.9 4.6				0.37 0.25 0.18 0.19 0.18
26 27 28 29 30 31	0.46 0.47 0.46 0.53 0.60 0.48	0.42 0.51 1.5 1.1	1.1 1.0 1.0 0.98 0.92 0.91	1.2 1.2 1.3 1.3	3.8 3.1 2.5 	148 126 112 99 96 323	63 64 53 43 37	4.3 7.5 8.1 10 7.0 5.4	3.6 3.4 3.1 2.9 5.0	2.0 1.9 1.8 2.0 12	0.17 1.0 0.35 0.27 0.20 0.17	0.22 0.16 0.13 0.12 0.08
TOTAL MEAN MAX MIN AC-FT	78.31 2.526 54 0.43 155	1.5	556.22 17.94 299 0.77 1100	49.41 1.594 5.4 0.94 98	370.2 13.22 156 1.2 734	8830.7 284.9 2760 1.4 17520	9939 331.3 3190 37 19710	12.72 82		1169.5 37.73 224 1.8 2320	16.42 0.530 1.9 0.10 33	16.95 0.565 6.4 0.08 34
STATIST							•	ER YEAR (WY	)			
MEAN MAX (WY) MIN (WY)	52.15 310 1994 0.098 2000	78.09 372 2001 0.28 2000	130.3 743 1992 2.25 2000	85.95 316 1992 0.46 2000	177.2 828 2001 0.52 2000	191.1 565 1990 6.54 1986	157.6 1063 1990 2.76 2000	271.8 1359 1990 0.73 2000	129.6 659 1989 2.61 1996	16.76 91.1 1987 0.61 1998	3.618 13.2 1996 0.000 2000	29.70 123 1996 0.031 2000
SUMMARY	Y STATIS	STICS	FOR	2001 CALENI	DAR YEAR	1	FOR 2002	WATER YEAR		WATER YEAR	RS 1986 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL 10 PERC 50 PERC	MEAN F ANNUAL F DAILY DAILY SEVEN-I M PEAK F	MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	M	47454.13 130.0 4450 0.04 0.10 94130 266 3.9 0.44	Feb 16 Nov 14 Nov 11		23334. 63. 3190 0. 0. 9130 17. 46280 123.			109.9 277 3.1: 12500 0.00 0.00 24000 25.3: 79650 215 8.9 0.60		1990 1988 1988 1989

08050400 Elm Fork Trinity River at Gainesville, TX--Continued



## 08050800 Timber Creek near Collinsville, TX

LOCATION.--Lat 33°33′16", long 96°56′49", Cooke County, Hydrologic Unit 12030103, on left bank 13 ft to the left of bridge on Farm Road 902 and 19 ft downstream from the centerline of the road, 2.1 mi west of Collinsville, and 3.0 mi upstream from

DRAINAGE AREA.--38.8 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1985 to current year.

Water-quality records.--Chemical data: Apr. 1993 to Sept. 1993. Biochemical data: Apr. 1993 to Sept. 1993.

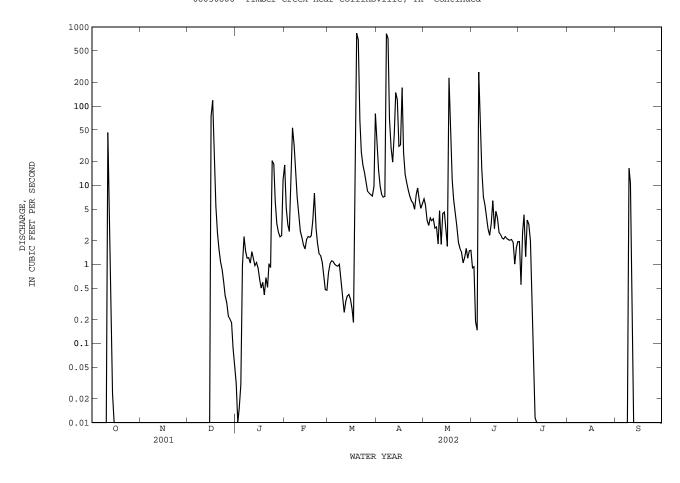
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 640.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. No known regulation or diversions. No flow many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct. 1981 reached a peak stage of 15.0 ft, from information by local resident.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.03 0.0 0.02 0.03 0.96	18 5.1 3.1 2.6 15	0.79 1.0 1.1 1.1	31 15 9.6 7.7 7.1	6.7 5.6 3.6 3.1 3.9	0.90 0.93 0.19 0.15 269	1.9 0.55 2.5 4.2 1.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.0 0.00 0.00	2.2 1.4 1.2 1.2	53 32 13 7.1 4.3	0.96 0.94 1.00 0.64 0.38	7.2 821 715 69 30	3.6 3.8 2.9 3.0 1.8	70 16 7.1 5.6 3.8	3.6 3.2 2.0 0.53 0.12	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 17 11
46 6.8 1.4 0.02 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1.4 1.2 0.96 1.0 0.89	2.6 2.2 1.8 1.6 2.1	0.25 0.34 0.40 0.41 0.36	20 45 148 120 31	4.8 1.8 4.4 4.6 2.8	2.8 2.3 3.3 6.4 2.8	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.44 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	74 118 18 5.4 2.5	0.64 0.50 0.59 0.41 0.68	2.2 2.2 2.3 3.6 7.9	0.27 0.18 56 832 687	32 171 26 14 11	1.7 227 58 12 6.6	4.7 3.8 2.5 2.4 2.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1.6 1.1 0.86 0.59 0.40	0.51 1.0 0.91 20 19	2.9 1.9 1.4 1.3	66 26 18 14 11	8.6 7.3 6.3 6.0 4.9	4.5 3.0 1.9 1.6 1.4	2.1 2.2 2.1 2.0 2.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00	0.00 0.00 0.00 0.00 0.00	0.33 0.22 0.20 0.18 0.09	6.2 3.3 2.5 2.2 2.3	0.68 0.48 0.47 	8.4 7.9 7.6 7.3 9.6	7.6 9.3 6.5 5.1 5.8	1.0 1.2 1.6 1.2 1.5	2.1 1.9 1.0 1.6 1.9	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
54.22 1.749 46 0.00 108	0.00 0.000 0.00 0.00 0.00	223.52 7.210 118 0.00 443	86.23 2.782 20 0.00 171	6.855 53 0.47 381	59.42 832 0.18 3650	79.93 821 4.9 4760	382.1 12.33 227 1.0 758	425.67 14.19 269 0.15 844	19.81 0.639 4.2 0.00	0.00 0.000 0.00 0.00 0.00	28.44 0.948 17 0.00 56
20.79 135 1992 0.000 1988	15.66 66.3 1997 0.000 1990	37.83 326 1992 0.000 1999	18.74 73.1 1992 0.10 2000	33.70 121 2001 0.000 1999	38.46 107 1998 0.67 1999	42.54 259 1990 0.000 1999	53.88 168 1989 0.059 1996	27.62 193 1989 0.000 1996	20.83 293 1994 0.000 1988	0.964 6.76 1996 0.000 1986	5.766 32.0 1992 0.000 1995
Y STATIST	rics	FOR	2001 CALE	ENDAR YEA	R :	FOR 2002 1	WATER YEAR	!	WATER YEA	RS 1986 -	2002
MEAN  T ANNUAL  ANNUAL  T DAILY ME  SEVEN-DA  M PEAK FI  M PEAK ST  RUNOFF (  CENT EXCE	MEAN MEAN MAN MY MINIMUM MAGE AC-FT) MEDS MEDS	ī	937 0.0 0.0 14520 34 0.0	Feb 2 00 Apr 1 00 May 1	4 8 2	832 0.0 3260 13.4 11210	Mar 19 00 Oct 1 00 Oct 1 Apr 7 44 Apr 7		72.7 1.7 5410 0.0 13300 14.9 19110 26 1.2	7 Jul 11 0 Oct 1 0 Oct 1 Jul 10 4 Jul 10	1985 1985 1994
	OCT  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	OCT NOV  0.00 0.	OCT NOV DEC  0.00 18 0.00 0.00 18 0.00 0.00 18 0.00 0.00 18 0.00 0.00 18 0.00 0.00 18 0.00 0.00 16 0.00 0.00 18 0.00 0.00 16 0.00 0.00 0.00 0.00 0.00 16 0.00 0.00 0.00 0.00 0.00 0.59 0.00 0.00 0.33 0.00 0.00 0.59 0.00 0.00 0.33 0.00 0.00 0.22 0.00 0.00 0.33 0.00 0.00 0.22 1.749 0.000 0.23 0.00 0.00 0.22 1.749 0.000 0.23 1.749 0.000 0.00 1.8 0.00 0.00 0.00	OCT NOV DEC JAN  0.00 0.00 0.00 0.00 0.03 0.00 0.00 0.0	OCT NOV DEC JAN FEB  0.00 0.00 0.00 0.00 0.03 18 0.00 0.00 0.00 0.00 0.02 3.1 0.00 0.00 0.00 0.00 0.03 2.6 0.00 0.00 0.00 0.00 0.03 2.6 0.00 0.00 0.00 0.00 0.96 15  0.00 0.00 0.00 0.00 1.4 32 0.00 0.00 0.00 1.4 32 0.00 0.00 0.00 1.2 13 0.00 0.00 0.00 1.2 7.1 0.00 0.00 0.00 1.2 7.1 0.00 0.00 0.00 1.2 7.1 0.00 0.00 0.00 1.2 7.1 0.00 0.00 0.00 1.2 7.1 0.00 0.00 0.00 1.0 1.2 7.1 0.00 0.00 0.00 1.0 1.2 7.1 0.00 0.00 0.00 1.0 1.2 7.1 0.00 0.00 0.00 1.0 1.2 7.1 0.00 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.2 2.2 1.4 0.00 0.00 1.0 1.6 0.00 0.00 1.8 0.59 2.3 0.00 0.00 1.8 0.59 2.3 0.00 0.00 1.8 0.59 2.3 0.00 0.00 1.8 0.59 2.3 0.00 0.00 1.6 0.51 2.9 0.00 0.00 1.6 0.51 2.9 0.00 0.00 1.6 0.51 2.9 0.00 0.00 0.00 1.1 1.0 1.9 0.00 0.00 0.00 1.1 1.0 1.9 0.00 0.00 0.00 1.1 1.0 1.9 0.00 0.00 0.00 1.1 1.0 1.9 0.00 0.00 0.00 1.8 0.59 1.3 0.00 0.00 0.00 1.9 1.1 0.00 0.00 0.00 1.8 0.50 1.3 0.00 0.00 0.00 1.5 2.0 6.8 7.9 0.00 0.00 0.00 1.8 0.50 1.3 0.00 0.00 0.00 1.8 0.50 1.3 0.00 0.00 0.00 0.59 20 1.3 0.00 0.00 0.00 0.40 19 1.1 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.22 3.3 0.48 0.00 0.00 0.00 0.20 2.5 0.68 7.9  20.79 15.66 37.83 18.74 33.70 135 66.3 326 73.1 121 1992 1997 1992 1992 2001 0.000 0.000 0.000 0.00 0.00 0.47 108 0.00 0.00 0.00 0.00 0.00 0.00 1988 1990 1999 2000 1999  Y STATISTICS FOR 2001 CALENDAR YEAR TOTAL 7318.65 TEXTENDAR MINIMUM 0.00 May 1  W PEAK STAGE RUNOFF (AC-FT) 14520 2ENT EXCEEDS 34 UNDOFF (AC-FT) 14520 2ENT EXCEEDS 34 UNDOFF (AC-FT) 14520 2ENT EXCEEDS 34 2ENT EXCEEDS 34 2ENT EXCEEDS 34	OCT NOV DEC JAN FEB MAR  0.00 0.00 0.00 0.00 0.03 18 0.79 0.00 0.00 0.00 0.00 0.02 3.1 1.1 0.00 0.00 0.00 0.00 0.03 2.6 1.1 0.00 0.00 0.00 0.00 0.33 2.6 1.1 0.00 0.00 0.00 0.00 0.96 15 1.0 0.00 0.00 0.00 0.00 1.2 3.1 1.0 0.00 0.00 0.00 0.00 1.4 32 0.94 0.00 0.00 0.00 0.00 1.2 7.1 0.64 0.00 0.00 0.00 0.00 1.2 7.1 0.64 0.00 0.00 0.00 0.00 1.2 7.1 0.64 0.00 0.00 0.00 0.00 1.2 13 1.00 46 0.00 0.00 0.00 1.2 7.1 0.64 0.00 0.00 0.00 0.00 1.2 2.2 0.34 46 0.00 0.00 0.00 1.2 2.2 0.34 46 0.00 0.00 0.00 1.4 2.6 0.25 6.8 0.00 0.00 1.0 4.3 0.38 46 0.00 0.00 0.00 1.2 2.2 0.34 1.4 0.00 0.00 0.96 1.8 0.40 0.02 0.00 0.00 1.2 2.2 0.34 0.00 0.00 0.00 1.3 1.0 1.6 0.41 0.00 0.00 0.00 1.0 1.6 0.41 0.00 0.00 0.00 18 0.59 2.3 56 0.00 0.00 18 0.59 2.3 56 0.00 0.00 18 0.59 2.3 56 0.00 0.00 18 0.59 2.3 56 0.00 0.00 0.54 0.41 3.6 832 0.00 0.00 1.5 0.68 7.9 687  0.00 0.00 1.6 0.51 2.9 66 0.00 0.00 1.1 1.0 1.9 26 0.00 0.00 1.1 1.0 1.9 26 0.00 0.00 1.1 1.0 1.9 26 0.00 0.00 0.54 0.41 3.6 832 0.00 0.00 0.00 1.1 1.0 1.9 26 0.00 0.00 0.59 20 1.3 14 0.00 0.00 0.59 20 1.3 14 0.00 0.00 0.59 20 1.3 14 0.00 0.00 0.59 20 1.3 14 0.00 0.00 0.00 1.8 2.2 0.68 8.4 0.00 0.00 0.00 0.59 20 1.3 14 0.00 0.00 0.00 0.22 3.3 0.48 7.9 0.00 0.00 0.00 1.8 2.2 0.68 8.4 0.00 0.00 0.00 0.22 3.3 0.48 7.9 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.20 2.5 0.47 7.6 0.00 0.00 0.00 0.00 0.00 0.47 0.18 0.00 0.00 0.00 0.00 0.00 0.47 0.18 0.00 0.00 0.00 0.00 0.00 0.00 0.47 0.18 0.00 0.00 0.00 0.00 0.00 0.00 0.07 0.99 1.999 0.00 0.00 0.00 0.00 0.00 0.00 0.00	OCT NOV DEC JAN FEB MAR APR  0.00 0.00 0.00 0.00 0.03 18 0.79 31 0.00 0.00 0.00 0.00 0.03 18 0.79 31 0.00 0.00 0.00 0.00 0.03 18 0.79 31 0.00 0.00 0.00 0.00 0.02 3.1 1.1 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# 08050800 Timber Creek near Collinsville, TX--Continued



## 08050840 Range Creek near Collinsville, TX

LOCATION.--Lat 33°31'34", long 96°48'25", Grayson County, Hydrologic Unit 12030103, on downstream left bank at bridge on Farm Road 902, 1.8 mi upstream from Case Creek, 2.5 mi downstream from Little Elm Creek, and 6.5 mi southeast from Post Office in Collinsville.

DRAINAGE AREA.--29.2 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1992 to current year.
Water-quality records.--Chemical data: Oct. 1992 to Sept. 1995. Biochemical data: Oct. 1992 to Sept. 1995.

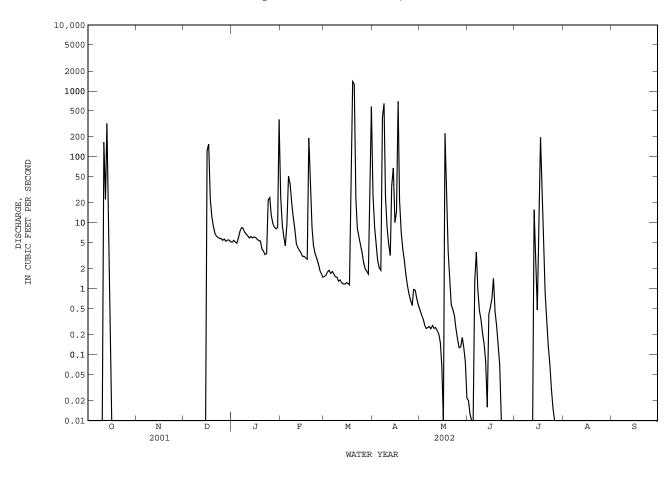
GAGE.--Water-stage recorder. Datum of gage is 621.08 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. No flow many days most years.

	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5				5.1 e5.4 e5.1 e4.9 5.9		1.5 e1.6 e1.8 e1.9 e1.7		0.47 0.40 0.35 0.28 0.25	0.02 0.01 0.0 0.00 1.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10				7.4 e8.4 8.3 7.2 6.7			397 644 25 8.5	0.26 0.27 0.25 0.27 0.25	3.6 0.99 0.47 0.34 0.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11 12 13 14 15	166 23 320 2.0 0.06	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6.3 e5.9 e6.2 e5.9 e6.1	e4.8 e4.2 e3.8 e3.5 e3.1	1.4 1.2 1.2 1.2	4.7 3.2 37 68 10	0.26 0.23 0.21 0.15 0.07	0.15 0.08 0.02 0.41 0.53	0.00 0.00 16 2.1 0.47	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	123 156 23 12 8.7	6.0 5.6 5.3 e5.3 e4.0	e3.1 e2.9 2.8 192 e32	1.2 1.1 116 1400 e1260	15 693 22 7.4 4.0	0.01 227 28 3.6 1.3	0.70 1.4 0.45 0.27 0.12	14 197 30 3.5 0.85	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
23 24 25										0.34 0.14 0.07 0.03 0.02		
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5.4 5.6 5.2 5.5 5.5	e13 e9.8 8.6 8.1 8.5 e369	e1.9 e1.7 e1.5 	e2.5 e2.0 1.8 1.7 15 574	0.55 0.97 0.95 0.70 0.56	0.13 0.13 0.18 0.13 0.08	0.00 0.00 0.00 0.00 0.00	0.0 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL MEAN MAX MIN AC-FT	511.06 16.49 320 0.00 1010	0.00 0.000 0.00 0.00	385.80 12.45 156 0.00 765	594.4 19.17 369 3.3 1180	192 1.5	3443.3 111.1 1400 1.1 6830	1996.22 66.54 693 0.55 3960	8 594	0 371	264.52 8.533 197 0.00 525	0.000	0 000
						93 - 2002	, BY WATER					
MEAN MAX (WY) MIN (WY)	17.30 107 1994 0.000 1993	39.23 204 1997 0.000 1996	23.47 66.0 1998 0.40 2000	18.01 108 1998 0.000 2000	33.10 118 2001 0.000 1996	41.87 111 2002 1.25 1999	25.78 66.5 2002 0.15 1998 FOR 2002 W	20.90 86.5 1995 0.000 1996	5.626 28.3 1993 0.000 1996	4.534 36.7 1994 0.000 1993	0.615 4.72 1994 0.000 1993	0.000
SUMMAR	Y STATIST	ICS	FOR	2001 CALEN	DAR YEAF	3	FOR 2002 W	ATER YEAR		WATER YEAR	RS 1993 -	2002
ANNUAL ANNUAL HIGHES' LOWEST HIGHES' LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PER 50 PER 90 PER	MEAN	MEAN EAN EAN AN Y MINIMUM DW AGE AC-FT) EDS EDS EDS	ſ	7811.41 21.40 1180 0.00 0.00 15490 16 0.00 0.00			7936.25 21.7	4		19.27 38.3 1.88 2580 0.00 7640 23.32 13960 0.03 0.03		1997 1996 1993 1992 1992 1993 1993

e Estimated

# 08050840 Range Creek near Collinsville, TX--Continued



## 08051100 Ray Roberts Lake near Pilot Point, TX

LOCATION.--Lat 33°21'19", long 97°02'59", Denton County, Hydrologic Unit 12030103, in control room of outlet works tower located 336 ft upstream from centerline of Ray Roberts Dam (and Farm Road 455 which is located on top of dam) on Elm Fork Trinity River, 3.7 mi upstream from Bray Branch, 5.7 mi southwest of Pilot Point, and at river mile 60.0.

DRAINAGE AREA. -- 692 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1987 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Water-quality records.--Chemical data: Feb. 1989 to Sept. 1998.

GAGE. -- Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. Lake is formed by a rolled earthfill dam 15,250 ft long. There is an uncontrolled, broad-crested spillway excavated in natural ground about 5,000 ft right of right end of dam. A reinforced concrete tower houses the flood-control and low-flow gates and operating equipment. Construction started Sept. 16, 1980, and closure was made in May 1986. The dam was built and is owned by the U.S. Army Corps of Engineers. Deliberate impoundment started June 30, 1987. The lake was built for water supply, flood control, and recreation purposes. Conservation pool storage is 799,750 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	665.0
Spillway crest (uncontrolled)	645.5
Top of flood-control pool	640.5
Top of conservation pool	632.5
Invert, lowest gated outlet	551.0

COOPERATION. -- Capacity tables provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,219,000 acre-ft, May 3, 1990, elevation, 644.48 ft; minimum contents after initial filling, 405,700 acre-ft, Oct. 13, 2001, elevation, 615.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 890,800 acre-ft, Apr. 10, elevation, 635.46 ft; minimum contents, 747,000 acre-ft, Dec. 11, 14, elevation, 630.65 ft.

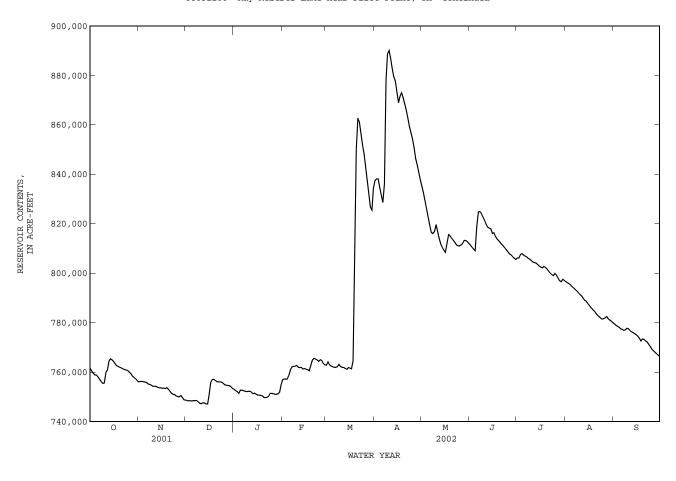
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	761500	756000	748700	753000	756900	762700	837500	834900	811300	806200	796600	779500
2	760400	756200	748400	752400	757200	764100	838200	832400	810500	806200	796100	778900
3	759500	756300	748400	752100	757100	763000	838100	829200	809700	807600	795700	778500
4	758800	756100	748400	751300	757200	762400	834900	826100	809000	807900	795200	778100
5	758800	756000	748300	752600	758700	762100	831600	822700	818900	807300	794600	777500
6	758000	755800	748400	752700	761000	762000	828600	819400	824700	806900	794000	777300
7	757100	755200	748400	752400	762100	761900	836100	816400	824900	806600	793300	776800
8	756100	755000	748500	752300	762300	762100	878200	816000	824200	805900	792800	777100
9	755400	754700	748000	752100	762300	763100	888600	816900	822800	805600	792000	777700
10	755600	754300	747400	752200	762600	762300	890100	819600	821400	805100	791300	777500
11	759800	754200	747200	752200	761900	761900	886800	817100	820000	804500	790900	776800
12	760800	754200	747500	751900	761800	761900	882700	814100	818700	804300	789900	776200
13	764400	753900	747500	751300	761800	761400	879500	811800	818200	804100	789000	775900
14	765300	753600	747100	751400	761200	761100	877800	810500	817900	803500	788700	775400
15	764900	753600	747100	751100	761400	761800	873400	809400	816000	802900	787700	775100
16	764200	753400	750800	750600	761100	761600	869000	808500	816400	802400	786900	774500
17	763300	753500	755700	750700	760900	761300	871600	812200	814900	802100	786100	773700
18	762500	753200	756900	750500	760500	764600	872900	815600	813900	802800	785300	772600
19	762300	753700	757000	750400	762700	798200	871000	815000	813100	802300	784800	773400
20	761800	753000	756600	749700	764900	849900	868300	814100	812400	801600	784000	773200
21 22 23 24 25	761600 761200 760900 760900 760600	752200 751400 751000 750900 750300	756100 756000 756000 755900 755400	749700 749800 750100 751400 751400	765600 765200 764900 764300 765000	862700 861300 856800 852000 848200	865700 862900 859400 856700 854000	813400 812500 811500 811100	811700 811000 810200 809400 808600	800700 800000 799500 799000 799900	783100 782500 782000 781400 781500	772500 772100 771100 770300 769200
26 27 28 29 30 31	759900 759400 758300 757800 757300 756500	750000 750000 750500 749600 748700	754800 754600 754500 754500 754000 753300	751200 751000 751000 751200 751900 754800	764600 763500 762900 	842700 837100 831700 826900 825600 834300	850500 846400 843800 840700 837500	811400 812000 813300 813200 812800 812000	807800 807400 806600 806100 805600	799100 798200 797000 796500 797500 797100	781800 782500 781600 781000 780600 780000	768600 767900 767400 766800 766300
MEAN	760200	753200	751700	751500	761800	795100	859100	816000	814100	802600	787500	773900
MAX	765300	756300	757000	754800	765600	862700	890100	834900	824900	807900	796600	779500
MIN	755400	748700	747100	749700	756900	761100	828600	808500	805600	796500	780000	766300
(+)	630.99	630.71	630.88	630.93	631.22	633.65	633.76	632.91	632.70	632.41	631.82	631.34
(@)	-6900	-7800	+4600	+1500	+8100	+71400	+3200	-25500	-6400	-8500	-17100	-13700

CAL YR 2001 MAX 868900 MIN 552200 (@) +201800 WTR YR 2002 MAX 890100 MIN 747100 (@) +2900

<sup>(+)</sup> Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08051100 Ray Roberts Lake near Pilot Point, TX--Continued



#### 08051500 Clear Creek near Sanger, TX

LOCATION.--Lat 33°20′10", long 97°10′45", Denton County, Hydrologic Unit 12030103, at the downstream side near right end of bridge on county road, 1,350 ft downstream from Duck Creek, 1.1 mi upstream from Gulf, Colorado, and Santa Fe Railway Company bridge, and 1.8 mi south of Sanger.

DRAINAGE AREA. -- 295 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Mar. 1949 to current year.

REVISED RECORDS.--WSP 1512: 1950, 1955. WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 582.23 ft above NGVD of 1929. Prior to Apr. 18, 1975, water-stage recorder at datum 5.00 ft higher. Apr. 18, 1975 to June 9, 1988, at site 950 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair. Since 1980, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 51 floodwater-retarding structure. These structures control runoff from 149 mi<sup>2</sup> in the Clear Creek watershed. There are no known diversions above station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--31 years (water years 1950-80), 74.3 ft<sup>3</sup>/s (53,830 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1950-80).--Maximum discharge,  $18,200 \text{ ft}^3/\text{s}$ , Sept. 13, 1950, gage height, 29.80 ft, at site and datum then in use; no flow at times most years.

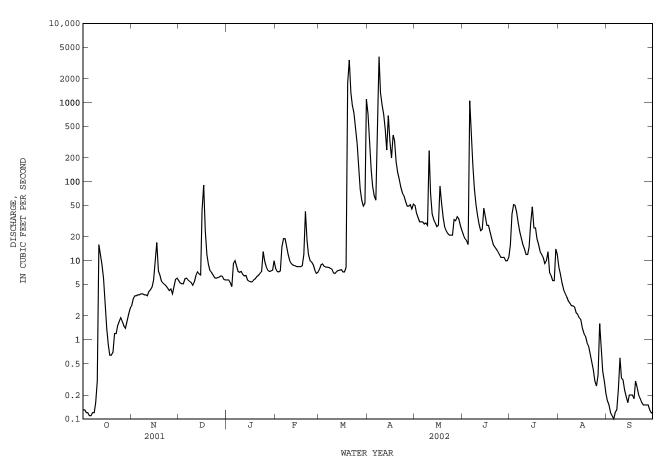
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 36.5 ft in May 1908, from information by Gulf, Colorado, and Santa Fe Railway Company. Flood in May 1935 reached a stage of 34.0 ft, from information by Texas Department of Transportation. Both peaks referenced to present site and datum.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY .TTTN JUL AUG SEP 8.3 0.17 e0.13 e0.13 e0.12 3.3 5.2 5.1 5.7 5.3 7.3 7.2 8.9 9.1 6.7 5.2 0.15 0.12 2 300 40 19 39 3 51 140 18 35 7.4 87 5 e0.11 3.7 5 9 9 2 15 8.3 66 31 1050 41 3.9 0.10 6 e0.11 10 19 8.3 58 31 30 0.12 e0.12 e0.12 3.8 3.8 5.7 5.5 8.5 7.3 19 8 2 634 29 165 23 3 1 0.13 0.24 8 8.0 30 19 2.9 15 3780 81 0.16 12 7.8 28 51 16 2 7 10 0 30 3 7 4 9 7 3 10 7 0 936 246 37 14 0 33 9.2 11 e16 3.6 5.4 6.7 6.9 709 71 29 12 2.6 0.31 6.4 7.2 8.8 7.3 7.5 2.2 12 e12 4.1 6.4 451 39 24 12 0.23 13 e9.0 4.3 6.5 25 15 0.19 33 8.5 14 e6.0 4.6 6.8 7.6 679 30 46 30 1.9 0.16 7.7 15 2.9 5.7 6.6 5.5 8.4 325 27 35 48 1.8 0.20 16 10 e44 5.4 8.4 7.2 199 28 28 26 1.4 0.20 0.86 5.4 5.7 7.2 17 17 e90 8.4 388 88 28 26 1.2 0.20 18 0.64 7.4 24 8.6 8.2 328 23 19 0.18 19 0.64 6.6 12 5.9 12 1760 175 35 19 16 0 92 0.30 20 8.9 0.69 5.5 6.3 42 3440 129 27 16 13 0.83 0.25 1.2 7.5 21 5.2 6.5 18 1330 105 2.4 15 12 0.65 0.20 5.0 6.9 22 22 14 7.1 12 926 85 11 0.52 0.18 23 1.5 4.8 6.6 7.3 10 739 72 21 13 9.2 0.42 0.16 4.5 4.2 24 1.7 6.1 13 9.6 468 66 21 12 10 0.30 0.15 25 1.9 6.0 9.7 8.9 21 305 56 11 13 0.26 0.15 26 1.7 4.4 6.1 8.4 7.6 164 49 33 11 7.1 0.36 0.15 6.2 6.9 27 1.5 3.8 49 6.5 7.6 81 32 11 1.6 0.15 28 1.4 4.6 6.4 7.3 7.1 58 51 36 10 5.6 0.80 0.13 1.7 7.4 29 5.8 6.3 49 45 34 10 5.6 0.40 0.12 30 2.1 6.0 5.8 7.6 52 28 11 14 0.30 0.12 53 2 5 5.7 10 1100 24 12 0 21 TOTAL 69.95 152.7 335.4 222.0 323.0 10614.5 12312 1278 2299 622.0 65.17 5.79 2.102 MEAN 2.256 5 090 10 82 7 161 11 54 342 4 410 4 41.23 76.63 20 06 0.193 MAX 16 17 90 13 42 3440 3780 246 1050 51 8.3 0.59 0.11 6.9 5.6 45 0.21 0.10 MIN 6.9 10 AC-FT 139 303 665 440 641 21050 24420 2530 4560 1230 129 11 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002z, BY WATER YEAR (WY) 179.7 89.40 129.6 87.83 226.1 199.9 213.3 29.53 8.133 MEAN 203.6 25.29 MAX 1112 1811 1307 1995 1,990 1982 1986 (WY) 1982 1992 1992 2001 1990 1990 1989 1995 0.000 0.000 0.30 0.022 14.8 10.1 4.60 0.11 0.002 0.000 0.000 MTN 1.64 2000 2000 2000 (WY) 2000

# 08051500 Clear Creek near Sanger, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1981 - 2002z
ANNUAL TOTAL	67749.98	28299.51	143.7
ANNUAL MEAN	185.6	77.53	
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN			476 1982 2.64 2000
HIGHEST DAILY MEAN	6460 Feb 16	3780 Apr 8	39700 Oct 13 1981
LOWEST DAILY MEAN	0.11 Aug 25	0.10 Sep 5	0.00 Oct 12 1980
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW	0.11 Aug 25 0.12 Oct 2	0.12 Oct 2	0.00 Aug 2 1981 104000 Oct 13 1981
MAXIMUM PEAK STAGE	124400	21.36 Apr 8	35.70 Oct 13 1981
ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS	134400	56130	104100
	355	81	254
50 PERCENT EXCEEDS	14	7.6	22
90 PERCENT EXCEEDS	0.45	0.26	0.01

Estimated Period of regulated streamflow.



#### 08051500 Clear Creek near Sanger, TX--Continued (National Water-Quality Assessment Program)

## WATER-QUALITY RECORDS

PERIOD OF RECORD. --

CHEMICAL DATA: Apr. 1959, Jan. 1966, Oct. 1984 to Sept. 1996, Oct. 1997 to current year. PESTICIDE DATA: May 1997 to current year. SEDIMENT DATA: Feb. 1966 to May 1977, Oct. 1997 to Sept. 1999.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Oct. 1969 to Aug. 1977. WATER TEMPERATURE: May 1968 to Aug. 1977. SUSPENDED SEDIMENT DISCHARGE: May 1968 to Aug. 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum daily, 1,920 microsiemens/cm, Oct. 12, 1976; minimum daily, 182 microsiemens/cm,
July 29, 1973.
WATER TEMPERATURE: Maximum daily, 39.0°C, June 8, 1969; minimum daily, 0.0°C, Jan. 9, 1970.
SEDIMENT CONCENTRATION: Maximum daily mean, 7,370 mg/L, May 12, 1972; minimum daily mean, no flow on many days.
SEDIMENT LOADS: Maximum daily, 79,000 tons May 7, 1969; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV	1000	2.5	F1.0		16.6	<b>5</b> 0	0.1	000	60.4	50.1		222	- 00
06 DEC	1030	3.5	718	7.9	16.6	7.8	81	232	63.4	59.1		<.008	E.03
06 JAN	1015	6.0	700	8.1	15.1	8.2	82	244	64.7	41.4		<.008	E.02
08 FEB	1130	7.3	639	8.3	4.4	13.4	105	218	63.3	35.7		<.008	.16
14 MAR	1030	8.4	639	8.6	6.1	12.9	105	210		36.2		<.008	E.04
14 APR	1000	7.3	606	8.1	14.8	10.5	107	225	64.0	40.5		<.008	<.05
11	1430	691	270	8.0	17.5	9.4	99	116	11.4	5.57	.51	.026	.53
MAY 16	0900	25	615	8.1	21.9	8.4	98	221	48.8	34.2		<.008	.11
JUN 13	1000	21	583	7.7	27.5	7.6	99	199	42.1	32.5		<.008	.11
JUL 11	1030	13	564	7.9	28.8	7.6	99	184	43.0	35.7		<.008	.08
AUG 07	1030	3.3	657	7.6	27.7	6.8	89	182	53.5	57.9		E.006	E.04
Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV 06 DEC	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV 06	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV 06 DEC 06 JAN 08	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	CHLOR, WATER FLTRD REC (UG/L) (49260)
NOV 06 DEC 06 JAN 08 FEB 14	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.002	CHLOR, WATER FLTRD REC (UG/L) (49260) <.004
NOV 06 DEC 06 JAN 08 FEB 14 MAR 14	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665) .022 .020	PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)  <.02 <.02 <.02	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5 2.9	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 1.0 1.1	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) <.002 <.002	CHLOR, WATER FLIRD REC (UG/L) (49260)  <.004 <.004 <.006
NOV 06 DEC 06 JAN 08 FEB 14 MAR 14 APR 11	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04 <.04	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665) .022 .020 .013	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.02 <.02 <.02	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5 2.9	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.0 1.1 .5 .6	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .12 .41 .57	MENT, SUS- PENDED (MG/L) (80154) 13 25 29 14	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) < .002 < .002 < .006 < .006	CHLOR, WATER FLITRD REC (UG/L) (49260)  <.004 <.004 <.006
NOV 06 DEC 06 JAN 08 FEB 14 MAR 14 APR 11 MAY 16	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04 <.04 <.04	GEN, TOTAL (MG/L AS N) (00600)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  .37 .24 .15 .23 .22	PHORUS TOTAL (MG/L AS P) (00665)  .022 .020 .013 .014 .019	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.02 <.02 <.02 <.02	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5 2.9 1.8 2.9	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.0  1.1  .5  .6  .9	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .12 .41 .57 .32	MENT, SUS- PENDED (MG/L) (80154) 13 25 29 14 63	ETHYL ANILINE WAT FIT 0.7 U GF, REC (UG/L) (82660)  <.002 <.002 <.006 <.006 <.006	CHLOR, WATER FLIRD REC (UG/L) (49260)  <.004 <.004 <.006 <.006
NOV 06 DEC 06 JAN 08 FEB 14 MAR 14 APR 11 MAY 16 JUN 13	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04 <.04 <.04 <.05	GEN, TOTAL (MG/L AS N) (00600)   .31  	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  .37 .24 .15 .23 .22 .86	PHORUS TOTAL (MG/L AS P) (00665)  .022 .020 .013 .014 .019	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.02 <.02 <.02 <.02 <.02	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5 2.9 1.8 2.9 2.3 7.0	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.0 1.1 .5 .6 .9 6.9	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .12 .41 .57 .32 1.2	MENT, SUS- PENDED (MG/L) (80154) 13 25 29 14 63 328	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.002 <.002 <.006 <.006 <.006	CHLOR, WATER FITRD REC (UG/L) (49260)  <.004 <.004 <.006 <.006 <.006
NOV 06 DEC 06 JAN 08 FEB 14 MAR 14 APR 11 MAY 16	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04 <.04 <.04 <.04 <.04	GEN, TOTAL (MG/L AS N) (00600)   .31  1.4	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  .37 .24 .15 .23 .22 .86 .27	PHORUS TOTAL (MG/L AS P) (00665) .022 .020 .013 .014 .019 .19	PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.02 <.02 <.02 <.02 <.02 <.02	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660) 147	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 4.5 2.9 1.8 2.9 2.3 7.0 2.9	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.0 1.1 .5 .6 .9 6.9 .7	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .12 .41 .57 .32 1.2 612 3.8	MENT, SUS- PENDED (MG/L) (80154) 13 25 29 14 63 328 57	ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.002 <.002 <.006 <.006 <.006 <.006	CHLOR, WATER FLITRD REC (UG/L) (49260)  <.004 <.006 <.006 <.006 <.006

# 08051500 Clear Creek near Sanger, TX--Continued (National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
NOV 06	<.002	<.005	.008	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	E.002
DEC 06	<.002	<.005	<.007	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.006
JAN 08	<.004	<.005	.009	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.006
FEB 14	<.004	<.005	1.05	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	E.072
MAR 14	<.004	<.005	.194	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	E.013
APR 11	.008	<.005	.094	<.050	<.010	<.002	<.041	<.020	E.003n	<.006	<.018	<.003	E.007
MAY 16 JUN	<.004	<.005	.047	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	E.009
13 JUL	<.004	<.005	.078	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	E.014
11 AUG													
07													
Date	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
NOV 06	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.013	<.006	<.002
DEC 06	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.013	<.006	<.002
JAN 08	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.013	<.006	<.002
FEB 14	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.013	<.006	<.002
MAR 14	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.002n	<.006	<.002
APR 11 MAY	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.009n	<.006	<.002
16 JUN	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.012n	<.006	<.002
13 JUL	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.024	<.006	<.002
11 AUG													
07													
Date	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
NOV 06	<.007	<.003	<.007	<.006	<.002	<.010	<.011	.02	<.010	<.011	<.02	<.004	<.011
DEC 06	<.007	<.003	<.007	<.006	<.002	<.010	<.011	<.01	<.010	<.011	<.02	<.004	<.011
JAN 08	<.007	<.003	<.010	<.006	<.004	<.022	<.011	<.01	<.010	<.011	<.02	<.004	<.005
FEB 14	<.007	<.003	<.010	<.006	<.004	<.022	<.011	<.01	<.010	<.011	<.02	<.004	<.005
MAR 14	<.007	<.003	<.010	<.006	<.004	<.022	<.011	<.01	<.010	<.011	<.02	<.004	<.005
APR 11	<.007	<.003	<.010	<.006	<.004	<.022	<.011	<.01	<.010	<.011	<.02	<.004	<.005
MAY 16	<.007	<.003	<.010	<.006	<.004	<.022	<.011	.02	<.010	<.011	<.02	<.004	<.005
JUN 13 JUL	<.007	<.003	<.010	<.006	<.004	<.022	<.011	<.01	<.010	<.011	<.02	<.004	<.005
11 AUG													
07													

# 08051500 Clear Creek near Sanger, TX--Continued (National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NOV						
06 DEC	<.02	<.034	<.02	<.005	<.002	<.009
06 JAN	<.02	<.034	<.02	<.005	<.002	<.009
08	.13	<.034	<.02	<.005	<.002	<.009
FEB 14	.05	<.034	<.02	<.005	<.002	<.009
MAR 14	E.07	<.034	<.02	<.005	<.002	<.009
APR 11	.02	<.034	<.02	<.005	<.002	<.009
MAY 16	E.05	<.034	<.02	<.005	<.002	<.009
JUN 13	.05	<.034	<.02	<.005	<.002	<.009
JUL 11						
AUG 07						

Remark codes used in this report:
<-- Less than
E -- Estimated value

Value qualifier codes used in this report:  $\ensuremath{\text{n}}$  -- Below the NDV

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## 08052700 Little Elm Creek near Aubrey, TX

LOCATION.--Lat 33°17′00", long 96°53′33", Denton County, Hydrologic Unit 12030103, on left bank at downstream side of bridge on Farm Road 1385, 1.5 mi upstream from Mustang Creek, 5.5 mi east of Aubrey, and 18 mi upstream from Lewisville Dam on the Elm Fork Trinity River.

DRAINAGE AREA.--75.5 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1956 to Sept. 1976, Oct. 1979 to current year.
Water-quality records.--Chemical data: Feb. 1966 to Sept. 1975. Specific conductance: Dec. 1966 to Sept. 1975. Water temperature: Feb. 1966 to Sept. 1975. Sediment data: Feb. 1966 to Sept. 1975.

REVISED RECORDS. -- WRD TX-70-1: 1969.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 534.76 ft above NGVD of 1929. Satellite telemeter at station.

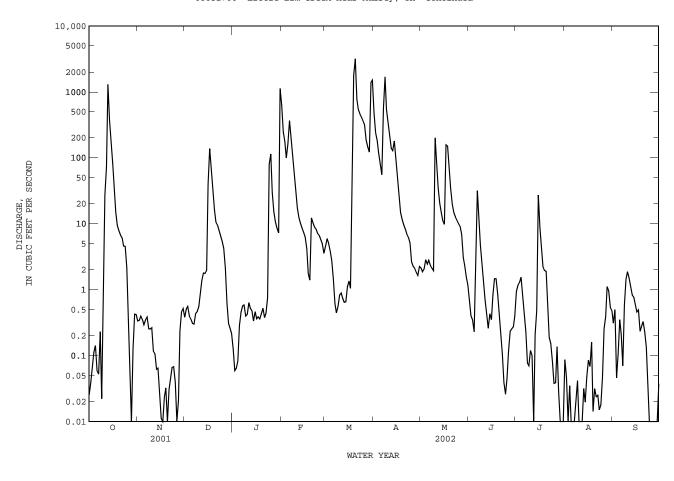
REMARKS.--Records fair except those for estimated daily discharges, which are poor. There are several small diversions above station for irrigation. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1900, 18.2 ft in May 1941, from information by local residents.

	DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.03 0.04 0.07 0.11 0.14	0.34 0.40	0.38 0.51 0.55 0.40 0.36	0.13 0.06 0.06 0.08 0.29	634 247 174 100 164	4.6 5.9 5.0 3.9 2.8	487 241 182 118 82	2.1 1.9 2.0 2.8 2.4	0.67 0.40 0.34 0.23 2.2	0.94 1.2 1.3 1.5 0.83	0.09 0.05 0.00 0.03 0.00	0.31 0.50 0.05 0.11 0.35
6 7 8 9 10	0.06 0.05 0.23 0.02 0.68	0.35 0.39 0.26 0.25 0.26	0.31 0.30 0.43 0.46 0.55	0.45 0.56 0.58 0.40 0.42	367 208 107 61 31	1.4 0.61 0.44 0.55 0.82	55 557 1690 539 349	2.8 2.4 2.1 1.9 200	32 12 4.7 2.3 1.2	0.45 0.23 0.08 0.07 0.12	0.00 0.0 0.02 0.04 0.00	0.21 0.07 0.58 1.4 1.9
11 12 13 14 15	27 e73 e1300 e372 e161	0.12 0.11 0.06 0.06 0.03	0.88 1.4 1.8 1.8 2.0	0.64 0.52 0.48 0.33 0.46	17 12 10 8.6 7.4	0.89 0.73 0.64 0.65 1.1	214 140 129 180 96	91 35 20 15 11	0.71 0.44 0.26 0.43 0.35	0.10 0.0 0.21 0.48 27	0.00 0.00 0.03 0.02 0.05	1.5 1.1 0.83 0.77 0.61
16 17 18 19 20							50 25 15 12 9.6	9.8 157 150 65 35		8.7 4.1 2.2 2.0 1.9		0.46 0.49 0.23 0.27 0.33
22 23 24 25		0.03 0.05 0.07 0.07					8.2 7.0 6.2 5.1 2.6	20 15 13 11 10	0.20 0.11 0.04 0.03 0.04	0.53 0.19 0.15 0.08 0.04	0.02	0.23 0.13 0.04 0.0 0.00
26 27 28 29 30 31	0.46 0.05 0.00 0.13 0.43 0.42	0.01 0.02 0.23 0.46 0.52	4.2 2.1 0.63 0.30 0.26 0.21	30 15 11 8.5 7.3 1130	5.7 5.0 3.6 	314 186 146 122 1380 1500	2.2 2.1 1.8 1.6 2.2	9.2 6.9 3.1 2.3 1.6 1.2	0.12 0.23 0.25 0.27 0.40		0.26 0.39 1.1 0.95 0.54 0.48	0.0 0.00 0.00 0.00 0.04
TOTAL MEAN MAX MIN AC-FT	2105.12 67.91 1300 0.00 4180	5.16 0.172 0.52 0.00 10	346.93 11.19 138 0.21 688	1404.90 45.32 1130 0.06 2790	2228.8 79.60 634 1.4 4420	11221.33 362.0 3180 0.44 22260	5209.6 173.7 1690 1.6 10330	29.11	2.167	54.61 1.762 27 0.00 108	4.52 0.146 1.1 0.00 9.0	12.51 0.417 1.9 0.00 25
STATI	STICS OF	MONTHLY ME	AN DATA F	OR WATER	YEARS 19	56 - 2002	h, BY WATE	R YEAR (WY	•			
MEAN MAX (WY) MIN (WY)	55.86 641 1982 0.000 1957	61.89 530 1997 0.000 1959	51.27 398 1992 0.000 1959	26.66 208 1998 0.000 1959	67.00 400 2001 0.000 1959	61.57 362 2002 0.026 1963	69.22 677 1957 0.10 1959	115.7 897 1982 0.000 1959	46.80 286 1989 0.000 1956	17.85 540 1994 0.000 1956	2.133 28.5 1966 0.000 1956	28.76 258 1964 0.000 1956
SUMMA	RY STATIS	TICS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002 W	ATER YEAR		WATER YEAR	S 1956 -	2002h
ANNUAL HIGHES LOWES ANNUAL MAXIM MAXIM ANNUAL 10 PEI	JM PEAK F	MEAN MEAN IEAN IEAN IAY MINIMUM TLOW TTAGE (AC-FT) IEEDS TEEDS		23662.: 64.8 2500 0.0 0.0 46930 169 0.1	Feb 1 000 May 000 Jun	6 1 5	23560.9 64.5 3180 0.0 0.0 8000 17.4 46730 133 0.7 0.0	Mar 20 00 Oct 28 11 Sep 23 Mar 20 10 Mar 20		50.44 178 2.24 11600 0.00 0.00 36200 18.27 36540 83 0.61	Jul 11 Jun 1 Jun 1 Jul 11 Jul 11	1982 1959 1954 1956 1956 1994 1994

h See PERIOD OF RECORD paragraph.

# 08052700 Little Elm Creek near Aubrey, TX--Continued



## 08052800 Lewisville Lake near Lewisville, TX

LOCATION.--Lat 33°04'09", long 96°57'51", Denton County, Hydrologic Unit 12030103, in intake structure of Lewisville Dam on Elm Fork Trinity River, 2.0 mi upstream from bridge on State Highway 121, 2.4 mi northeast of Lewisville, 12.0 mi upstream from Denton Creek, and 30.0 mi upstream from mouth.

DRAINAGE AREA. -- 1,660 mi2

PERIOD OF RECORD.--Nov. 1954 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Garza-Little Elm Reservoir near Lewisville".

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 17, 1955, nonrecording gage at site 4,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 32,888 ft long, including a 560-ft uncontrolled off-channel concrete-gravity spillway with ogee weir section. Deliberate impoundment began Nov. 1, 1954, and the dam was completed in Aug. 1955. The controlled low-flow outlet works consist of a 16.0-ft-diameter conduit that is controlled by three 6.5- by 13.0-ft broome-type gates and two 60-in steel pipes with service valves. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and water conservation. The city of Dallas obtains most of its municipal water supply from this lake. Inflow is affected at times by discharge from the flood-detention pools of 118 floodwater-retarding structures with a combined detention capacity of 81,670 acre-ft. These structures control runoff from 298 mi in the Elm Fork Trinity River, Clear, Little Elm, and Hickory Creeks watersheds. An unknown amount of water was diverted for municipal and industrial uses. Conservation pool storage is 640,990 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	560.0
Crest of spillway	
Top of conservation pool	
Lowest intakes to wet wells (invert)	
Invert of three broome-type gates	448.0

COOPERATION.--Capacity Table No. 1, furnished by the U.S. Army Corps of Engineers, from 1965 survey, and put into effect on Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,181,000 acre-ft, May 4, 1990, elevation, 536.73 ft; minimum since initial filling in 1957, 184,700 acre-ft, Sept. 28, 1980, elevation, 498.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 749,300 acre-ft, Apr. 14, 15, 16, elevation, 525.51 ft; minimum contents, 488,600 acre-ft, Jan. 22, elevation, 516.30 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	535100	524700	508100	e504000	518800	521000	703600	679300	648900	643700	625300	583500
2	533800	524600	507400	e504000	519800	523900	701600	675100	647700	644100	624200	582300
3	532600	524400	506900	e501800	520200	521300	696400	671000	646400	646500	622900	581100
4	531500	523800	506500	e500100	520400	519900	690100	666000	645700	647000	621300	579900
5	532200	523200	506000	e499600	522400	519000	684800	661100	647600	646900	619900	578700
6	531600	522400	506300	e499100	526700	518600	679700	657300	653100	646800	618300	577500
7	530100	521500	505900	e498400	528500	518100	683300	653800	653900	646300	617300	576100
8	528800	521100	506100	497900	528600	518100	724500	651600	653100	645800	616500	575600
9	527700	520400	504300	497300	529300	519500	743500	652100	652300	645000	614900	575800
10	527400	519400	503200	497200	530400	517900	745600	663400	650900	644200	613300	574900
11	528900	518900	502500	496600	529000	517100	744600	672800	649800	643600	612200	573800
12	529000	518600	502700	495900	528400	517200	744200	673400	649400	643000	610700	572800
13	537400	518000	502600	494300	528500	515800	744400	673400	650300	643700	608900	571600
14	540600	517200	501800	494400	527600	515100	748100	670400	652200	643300	607900	570600
15	540900	516700	501500	493300	528000	516000	748600	666500	651800	642500	606200	570000
16	539900	516300	506300	492700	527400	515100	748200	663400	653800	642900	604800	568500
17	538600	516000	509800	492400	527100	514400	747600	666200	653800	642700	603100	567000
18	537000	515300	510100	491500	526500	515500	745200	667400	653000	643000	601600	565100
19	536700	515900	510700	491300	526100	534500	742100	664500	652200	642300	600100	565700
20	536200	514500	509600	489700	526300	615100	738100	661300	651400	641400	598700	565000
21	535500	513400	509000	489500	526700	643100	734500	657800	650900	640400	596900	563800
22	534800	512400	509000	489000	526200	648600	730000	654000	650100	639400	595500	562900
23	534200	511700	e509000	489500	525200	651700	724100	652600	649400	638500	594000	561200
24	534000	512000	e509000	492900	524000	655200	718600	652400	648600	637400	592500	559800
25	533100	e511300	e515500	493500	525400	660500	712700	652200	647600	636200	591300	558400
26 27 28 29 30 31	532000 531000 529400 528600 527700 525900	e511200 e511100 511400 509700 508200	e518300 e518500 e506000 e505200 e504500 e504000	493400 493100 493000 493000 493500 508100	525500 522700 521700 	661200 661600 662500 663400 672700 694900	705500 699200 695000 689700 684500	651800 651500 651700 651300 650600 649800	646700 645800 644700 643100 642700	634600 632600 630500 629200 628000 626900	590200 589500 588500 587400 586000 584800	557400 556100 554700 553900 553000
MEAN	533000	516800	507300	495500	525600	572500	719900	660800	649600	640600	604700	568600
MAX	540900	524700	518500	508100	530400	694900	748600	679300	653900	647000	625300	583500
MIN	525900	508200	501500	489000	518800	514400	679700	649800	642700	626900	584800	553000
(+)	517.80	517.10	516.93	517.09	517.64	523.78	523.44	522.29	522.06	521.52	520.05	518.86
(@)	-11000	-17700	-4200	+4100	+13600	+173200	-10400	-34700	-7100	-15800	-42100	-31800

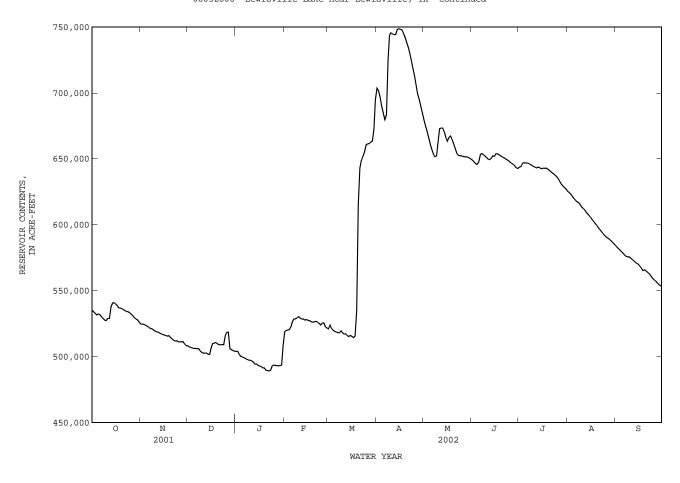
CAL YR 2001 MAX 793500 MIN 447900 (@) +57600 WTR YR 2002 MAX 748600 MIN 489000 (@) +16100

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08052800 Lewisville Lake near Lewisville, TX--Continued



## 08053000 Elm Fork Trinity River near Lewisville, TX

LOCATION.--Lat 33°02′44", long 96°57′39", Denton County, Hydrologic Unit 12030103, on left bank at downstream edge of highway right-of-way, 90 ft to left of left end of bridge on State Highway 121, 1.8 mi east of Lewisville, 1.9 mi downstream from Lewisville Lake, 8.3 mi upstream from Denton Creek, and 28.2 mi upstream from mouth.

DRAINAGE AREA. -- 1,673 mi<sup>2</sup>.

PERIOD OF RECORD. -- Mar. 1949 to current year.

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.39 ft above NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Jan. 6, 1950, nonrecording gage 0.6 mi upstream at datum 3.26 ft lower. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Nov. 1954, at least 10% of contributing drainage area has been regulated. Most of low flow is used by the city of Dallas for municipal supply (see Elm Fork Trinity River near Carrollton (station 08055500).

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1950-54) prior to regulation,  $402 \text{ ft}^3/\text{s}$  (291,200 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1950-54).--Maximum discharge, 21,700 ft<sup>3</sup>/s, Sept. 15, 1950, gage height, 30.75 ft; no flow June 14, 1954.

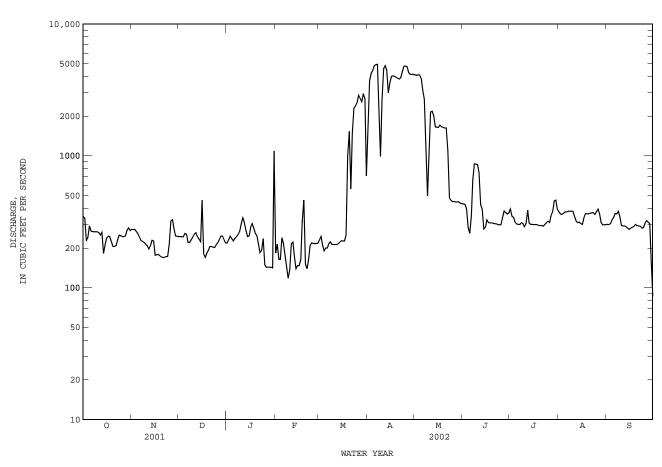
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1907, 33.8 ft in 1908, present site and datum, from information by local resident.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT DEC FEB MAR JUN JUL AUG SEP NOV JAN APR MAY 7 \_\_\_ ------TOTAL. MEAN 251.8 225.2 233.1 259.3 195.9 977.6 414.8 329.0 351.1 295.8 MAX MTN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002z, BY WATER YEAR (WY) MEAN 409.3 625.6 642.5 512.2 613.2 905.3 878.6 805.6 480.4 339.7 MAX (WY) MIN (WY) 

# 08053000 Elm Fork Trinity River near Lewisville, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALEN	DAR YEAR	FOR 2002 WAT	ER YEAR	WATER YEARS	1955 - 2002z
ANNUAL TOTAL	282847		279925			
ANNUAL MEAN	774.9		766.9		737.3	
HIGHEST ANNUAL MEAN					3062	1982
LOWEST ANNUAL MEAN					94.2	1955
HIGHEST DAILY MEAN	4200	Apr 22	4960	Apr 7	19000	May 4 1990
LOWEST DAILY MEAN	27	Feb 10	86	Sep 30	0.00	Oct 20 1993
ANNUAL SEVEN-DAY MINIMUM	34	Feb 6	157	Jan 24	0.29	Nov 3 1983
MAXIMUM PEAK FLOW			5120	Apr 7	19600	May 4 1990
MAXIMUM PEAK STAGE			21.66	Apr 7	30.15	May 4 1990
ANNUAL RUNOFF (AC-FT)	561000		555200		534100	
10 PERCENT EXCEEDS	2620		2700		3040	
50 PERCENT EXCEEDS	329		300		226	
90 PERCENT EXCEEDS	131		184		80	

z Period of regulated streamflow.



## 08053500 Denton Creek near Justin, TX

LOCATION.--Lat 33°07′08", long 97°17′25", Denton County, Hydrologic Unit 12030104, on right bank at downstream side of bridge on Farm Road 156, 100 ft upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.2 mi north of Justin, 3.0 mi upstream from Olivers Creek, 12.9 mi upstream from Harriet Creek, and 32.9 mi upstream from Grapevine Dam.

DRAINAGE AREA.--400 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1949 to current year.

REVISED RECORDS. -- WSP 1732: 1950(M). WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 606.66 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage, at least 10% of contributing drainage has been affected at times by discharge from the flood detention pools of 84 floodwater-retarding structures. These structures control runoff from 197 mi<sup>2</sup> in the Denton Creek watershed. No known diversions. No flow at times most years.

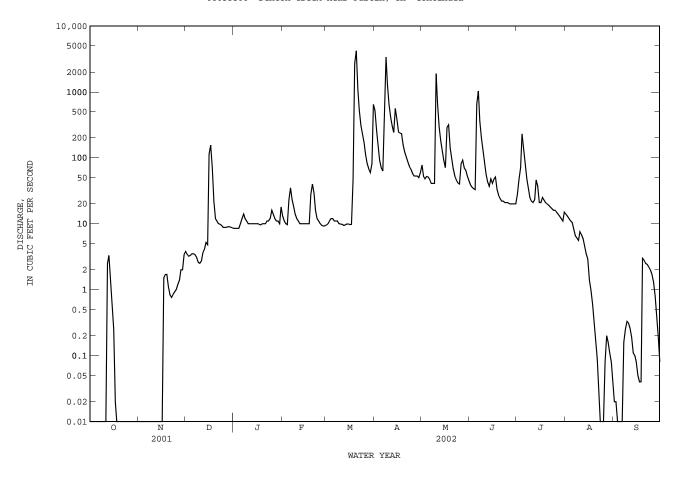
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1935 was the highest since 1908 and reached a stage of 20.6 ft at site about 1,500 ft upstream, from information by local resident. Flood in May 1908 reached a stage about 1.0 ft higher than flood in May 1935, from information by local residents.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Д	ISCHARGE I	FROM DCP,	COBIC FE		ECOND, WA LY MEAN V		CTOBER 200	I TO SE	PTEMBER 20	JU2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e0.0 e0.0 e0.0 0.0	0.0 0.0 0.0 0.0	3.8 3.4 3.2 3.3 3.5	8.5 8.5 8.5 8.5	13 11 10 9.7 23	9.6 10 11 12	520 259 150 91 71	78 53 48 52 51	39 36 34 33 651	28 47 71 230 138	e14 e13 e12 e11 e10.5	e0.02 e0.02 e0.01 e0.01 e0.01
6 7 8 9 10	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	3.5 3.4 3.1 2.6 2.5	12 14 12 11 10	35 23 18 14 12	11 11 11 10 9.9	63	47 41	1030 362 202 129 84	82 48 34 25 22	e8.3 e6.6 e6.1 e5.6 e7.6	e0.0 e0.16 e0.25 e0.33 e0.31
11 12 13 14 15	0.0 2.5 3.3 1.5 0.60	0.0 0.0 0.0 0.0	2.7 3.6 4.1 5.2 4.8	10 10 10 10 10	11 10 10 10	9.8 9.4 9.6 9.9 9.9	413 300 242 561 383	661 293 180 124 91	57 43 37 48 41	21 23 46 37 21	e6.8 e5.9 e4.5 e3.5 e2.9	e0.26 e0.19 e0.11 e0.10 e0.08
16 17 18 19 20	0.25 0.02 0.0 0.0 0.0	0.0 1.5 1.7 1.7	114 156 71 22 12	10 9.8 9.6 10	10 10 10 28 40			71 287 315 140 100		e21 e20	e1.4 e0.97 e0.60 e0.32 e0.18	e0.05 e0.04 e0.04 e3.0 e2.8
21 22 23 24 25	0.0 0.0 0.0 0.0	0.83 0.76 0.84 0.92 1.0	9.8 9.4 8.8		16	1070 523 310 232 169	102 87 74 67 58	68 53 46 42 40			e0.09 e0.03 0.01 e0.01 e0.01	e2.5 e2.4 e2.2 e2.0 e1.7
26 27 28 29 30 31	0.0 0.0 0.0 0.0 0.0	1.2 1.4 2.0 2.0 3.4	8.8 9.0 9.0 8.8 8.6	14 12 11 11 10 18	9.4 9.2 9.3 	113 82 68 60 82 646	53 53 53 50 60	80 92 70 65 53 45	20 20 20 20 20 20	e15 e14 e13 e12 e11 e15	e0.08 e0.20 e0.16 e0.11 e0.08 e0.04	e1.3 e0.80 e0.40 e0.20 e0.08
TOTAL MEAN MAX MIN AC-FT	8.17 0.264 3.3 0.00 16	20.35 0.678 3.4 0.00 40	529.7 17.09 156 2.5 1050	338.4 10.92 18 8.5 671	423.6 15.13 40 9.2 840	10467.6 337.7 4200 9.4 20760	10340 344.7 3380 50 20510	5268 169.9 1900 40 10450	3215 107.2 1030 20 6380	1149 37.06 230 11 2280	122.59 3.955 14 0.01 243	21.37 0.712 3.0 0.00 42
STATIST								YEAR (WY)				
MEAN MAX (WY) MIN (WY)	116.8 2828 1982 0.000 1952	85.07 817 1965 0.000 1952	74.59 1321 1992 0.000 1952	54.46 437 1992 0.000 1953	120.8 1236 2001 0.000 1953	144.1 598 1998 0.000 1953	172.9 2095 1990 0.000 1955	299.9 2036 1982 2.00 1959	160.8 1815 1989 0.000 1953	36.20 438 1950 0.000 1952	8.860 91.5 1973 0.000 1952	44.45 714 1962 0.000 1952
SUMMAR	Y STATIST	ICS	FOR	2001 CALE	NDAR YEA	R I	FOR 2002 W	ATER YEAR		WATER YE	ARS 1950 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL 10 PERC 50 PERC	MEAN  F ANNUAL ME  F DAILY ME  SEVEN-DA  M PEAK FL  M DEAK ST	EAN EAN AN Y MINIMUM OW AGE AC-FT) EDS EDS		0.00	Feb 2 ) Aug ) Aug	4 1 1	31903.7 87.4 4200 0.0 0.0 8250 15.5 63280 144 10 0.0			109.1 577 2.2 18600 0.1 0.3 34700 18.0 79520 160 12		1949 1949 1981

e Estimated

# 08053500 Denton Creek near Justin, TX--Continued



# 08053500 Denton Creek near Justin, TX--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1997 to current year. BIOCHEMICAL DATA: Oct. 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR 06	1000	10	813	7.7	7.7	11.7	101		260	60	78.6	16.0	58.1
APR 11	1050	418	375	8.0	18.0	7.8	84	2.5	160	23	54.1	5.00	11.2
MAY 15	0915	94	482	8.0	19.5	7.7	85	<2.0	200	19	69.2	6.26	17.6
AUG 13	1230	3.5	693	7.5	28.0	5.5	71	<2.0	240	62	67.7	16.1	46.0
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
MAR 06	2	32	3.01	2	242	203	82.1	84.7	.3	2.19	470	447	<10
APR 11	. 4	13	3.89	1	159	132	22.4	17.0	.2	10.5	224	205	165
MAY 15	.5	16	3.52	2	215	179	33.8	21.2	.2	10.3	284	271	36
AUG 13	1	29	3.81	1	210	173	94.0	49.1	.3	10.3	424	391	11
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
MAR 06 APR		<.008	E.04	<.04	.24	.016	<.02		63.0r	<1	.14	<2	85
11 MAY		E.007	.24	<.04	.45	.043	.03	.098	9.6	1	.14	2	70
15 AUG	.37	.015	.39	E.02	.46	.043	E.01		6.3	1	.15	2	81
13		<.008	<.05	<.04	.42	.012	<.02		5.1	<1	E.04	3	107
Date	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
MAR 06	<.06	<.04	<.8	.30	1.0	<10	<.08	9.6	<.01	2.3	1.36	<2	<1
APR 11	<.06	<.04	<.8	.25	1.5	E7	<.08	2.1		1.3	1.90	<2	<1
MAY 15	<.06	<.04	<.8	.33	1.5	<10	<.08	9.8	<.01	1.8	2.12	<2	<1
AUG 13	<.06	<.04	<.8	.20	1.2	<10	<.08	4.7	<.01	2.8	1.05	<2	<1

# 08053500 Denton Creek near Justin, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
MAR 06	1	4.22
APR 11	<1	1.95
MAY 15	1	2.21
AUG 13	1	1.90

Remark codes used in this report:
<-- Less than
E -- Estimated value

Value qualifier codes used in this report: r -- Value verified by rerun, same method

## 08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX

LOCATION.--Lat 33°01'12", long 97°14'52", Denton County, Hydrologic Unit 12030104, over center of channel at downstream side of bridge on State Highway 114 1.5 mi east of Interstate Highway 35W and 1.9 mi northwest of courthouse in downtown Roanoke.

DRAINAGE AREA.--75 mi<sup>2</sup>.

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1997 to current year. BIOCHEMICAL DATA: Oct. 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			WAILER	QUALITI L	MIN, WALL	ik IBAK OC	TODER 200	I TO DEFT	EMDER 200	2			
Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR	1200	2.2	F70	7 7	10 5	11 2	104		21.0	11	74.4	F 21	22.0
06 APR	1200	2.3	570	7.7	10.5	11.3	104		210	11	74.4	5.31	32.9
16 MAY	1045	40	485	7.9	21.5	7.0	81	<2.0	200	29	75.1	4.06	19.4
15 AUG	1145	15	481	7.9	20.5	7.8	88	<2.0	190	11	67.5	4.24	22.3
13	1020	4.7	340	7.2	27.0	7.3	93	2.3	110	13	41.1	2.81	20.5
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
MAR 06	1	25	2.44	2	236	197	48.1	30.9	.3	2.37	326	316	<10
APR 16	.6	17	2.92	2	210	175	31.1	16.4	.3	7.97	299	264	12
MAY 15	.7	20	2.53	<1	213	176	32.3	21.5	.4	5.55	277	262	19
AUG	.8	27							.3		198	185	28
13	.0	21	4.13	1	122	100	22.8	22.8	. 3	7.83	190	103	20
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
MAR 06 APR		<.008	. 25	<.04	.20	.005	<.02	5.2	1	.14	<2	79	<.06
16		E.006	.39	<.04	.44	.012	<.02	6.5	2	.26	M	82	<.06
MAY 15		E.005	.21	<.04	.28	.009	<.02	3.9	2	.14	E1	79	<.06
AUG 13	.47	.025	.49	<.04	.37	.024	E.01	6.6	3	.10	E2	57	<.06
Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAR 06 APR	<.04	<.8	. 25	1.2	<10	E.07	16.2	<.01	1.7	1.12	<2	<1	1r
16 MAY	<.04	<.8	.30	1.6	<10	<.08	3.0		.9	.56	<2	<1	2
15	<.04	<.8	.28	1.0	<10	E.05	9.2	<.01	1.1	1.70	<2	<1	<1
AUG 13	<.04	<.8	.18	1.6	<10	<.08	6.2	<.01	1.8	1.06	<2	<1	<1

08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
MAR 06 APR	1.02
16 MAY 15	.95 .79
AUG 13	.28

Remark codes used in this report:
<--- Less than
E -- Estimated value
M --- Presence verified, not quantified

Value qualifier codes used in this report:  $\ensuremath{\text{r}}$  -- Value verified by rerum, same method

## 08054500 Grapevine Lake near Grapevine, TX

LOCATION.--Lat 32°58'21", long 97°03'22", Tarrant County, Hydrologic Unit 12030104, in intake structure of Grapevine Dam on Denton Creek, 2.7 mi northeast of Grapevine, 4.3 mi upstream from bridge on State Highway 121, and 11.7 mi upstream from mouth.

DRAINAGE AREA. -- 695 mi<sup>2</sup>.

#### WATER-CONTENT RECORDS

PERIOD OF RECORD.--July 1952 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Grapevine Reservoir".

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 16, 1953, nonrecording gage at site 1,000 ft upstream at present datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfill dam 12,850 ft long, including a 500-foot uncontrolled off-channel concrete-gravity spillway with an ogee weir section. The dam was completed in June 1952, and deliberate impoundment began July 3, 1952. The controlled outlet works consist of a 13.0-ft-diameter concrete conduit that is controlled by two 6.5- by 13.0-ft broome-type gates and two 30-in steel pipes with service valves. The capacity table, used since Apr. 1972, is based on a survey made in Oct. 1966. The lake was built for flood control, navigation, and water conservation. The dam is owned by the U.S. Army Corps of Engineers. The city of Dallas uses part of this water for their municipal supply. An unknown amount of water is diverted for industrial and municipal uses. Inflow is affected at times by discharge from the flood-detention pools of 87 floodwater-retarding structures with a combined detention capacity of 57,850 acre-ft. These structures control runoff from 217 mi<sup>2</sup> in the Denton Creek watershed. Conservation pool storage is 181,100 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	588.0
Crest of spillway	560.0
Top of conservation pool	
Lowest intake to wet wells (invert)	500.5
Invert of two broome-type gates	475.0

COOPERATION. -- Capacity table furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 471,200 acre-ft, Nov. 1, 1981, elevation, 563.29 ft; minimum since lake first filled in 1957, 94,480 acre-ft, Feb. 26, 1979, elevation, 520.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 215,600 acre-ft, May 12, elevation, 539.50 ft; minimum contents, 139,100 acre-ft, Jan. 21, elevation, 528.79 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152300	146600	141400	141900	144500	144100	192300	209800	186600	182700	178900	169800
2	152000	146400	141300	141800	144500	144500	192700	209800	186400	182800	178600	169600
3	151800	146300	141200	141500	144500	144100	192400	210100	186100	183500	178300	169200
4	151500	146200	141000	141300	144400	143900	191900	210300	185900	184200	178000	168900
5	151400	146000	140900	141300	144900	143700	191300	211000	185800	184600	177600	168600
6	151000	145800	140900	141300	145800	143500	190900	211600	187400	184700	177400	168300
7	150600	145600	140900	141100	e146200	143500	192900	211300	188200	184700	177100	167900
8	150300	145400	140800	140900	e146300	143500	204700	211000	188100	184700	176700	167700
9	150100	145200	140400	140800	146500	143500	211500	210800	187700	184600	176400	167800
10	150000	145000	140200	140700	146400	143200	213500	211800	187100	184400	176200	167600
11	150200	144800	140100	140700	146200	143100	213200	214900	186400	184200	176200	167300
12	150200	144700	140100	140600	146100	143000	212500	215300	185700	183900	175800	167100
13	150800	144500	140100	140400	146100	142800	212400	214300	185200	183900	175600	166700
14	150600	144400	140000	140300	145900	142700	213800	211600	185400	183800	175200	166400
15	150500	144200	139900	140100	145900	142700	214500	208700	185200	183500	174900	166200
16	150100	144100	141200	140000	145700	142500	214700	205900	185600	183300	174500	165900
17	149900	144000	142900	139900	145600	142300	214900	203900	185600	183200	174200	165500
18	149600	144000	143500	139700	145500	142500	215100	202300	185400	183100	173900	165100
19	149400	143900	143700	139700	145500	146600	215000	199800	185100	182900	173500	165000
20	149200	143600	143700	139400	145400	177100	214700	197000	184900	182600	173200	164800
21	149100	143400	143500	139300	145500	190200	214400	194100	184700	182300	172900	164500
22	148900	143100	143500	139200	145400	192500	213900	191200	184400	182000	172500	164200
23	148700	143000	143300	139400	145200	193300	213400	188300	184200	181800	172200	163700
24	148600	142800	143200	140000	145100	193800	213000	186600	183900	181400	171900	163300
25	148300	142500	143100	140100	145100	194300	212300	186000	183700	181200	171500	163000
26 27 28 29 30 31	148000 147800 147400 147200 147000 146800	142300 142100 142100 141800 141600	142900 142700 142600 142500 142300 142100	140000 139900 139900 139800 139900 143100	145000 144500 144300 	193000 191500 190200 189000 189300 190900	211600 211000 210700 210200 209900	186200 186200 186500 186800 186800 186700	183400 183100 182800 182500 182400	180800 180400 180000 179600 179600 179300	171200 171300 171100 170800 170500 170100	162800 162300 162000 161200 160300

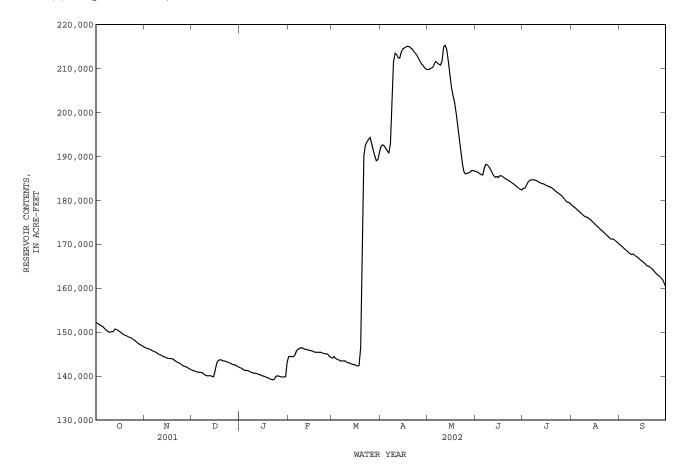
# 08054500 Grapevine Lake near Grapevine, TX--Continued

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	149700	144200	141800	140500	145400	161600	207800	201500	185300	182700	174500	165800
MAX	152300	146600	143700	143100	146500	194300	215100	215300	188200	184700	178900	169800
MIN	146800	141600	139900	139200	144300	142300	190900	186000	182400	179300	170100	160300
(+)	530.03	529.18	529.26	529.42	529.61	536.33	538.79	535.76	535.17	534.75	533.47	532.05
(@)	-5700	-5200	+500	+1000	+1200	+46600	+19000	-23200	-4300	-3100	-9200	-9800

CAL YR 2001 WTR YR 2002 MAX 305300 MIN 139900 (@) -9100 MAX 215300 MIN 139200 (@) +7800

# e Estimated

- (+) Elevation, in feet, at end of month.(@) Change in contents, in acre-feet.



## 08054500 Grapevine Lake near Grapevine, TX--Continued

#### PRECIPITATION RECORDS

PERIOD OF RECORD. -- Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is NGVD of 1929. REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR. -- Maximum daily rainfall, 2.43 inches, Jan. 31.

2.52

PRECIPITATION from dcp, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 0.00 0.00 0.00 0.00 0.00 e0.00 0.00 0.00 0.27 0.00 0.00 1 2 0.00 0.00 0.00 0.00 0.00 --e0.00 0.00 0.00 0.11 0.00 0.00 3 0.00 0.00 0.00 0.00 0.00 e0.00 0.91 0.00 0.10 0.00 0.00 0.00 0.00 0.00 0.02 0.02 e0.00 0.01 0.00 0.00 0.00 0.20 5 0.00 0.00 0.00 0.10 0.68 e0.00 0.01 1.02 0.30 0.03 0.00 0.00 0.00 6 7 0.00 0.00 0.06 0.00 0.32 e0.00 0.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 e0.00 2.25 0.00 0.00 0.00 0.03 e0.00 0.00 8 0.00 ---0.00 0.00 0.00 0.00 e0.00 e0.00 0.64 0.00 0.00 0.00 0.41 10 0.09 0.00 0.00 0.00 e0.00 \_\_\_ e0.00 0.07 0.00 0.00 0.14 0.00 11 0.00 0.22 0.00 e0.00 e0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.53 12 0.80 0.00 0.00 0.00 e0.00 e0.00 e0.00 e0.00 0.00 0.22 0.00 0.00 0.00 0.00 13 0.00 0.00 e0.00 0.00 0.00 0.00 0.02 0.00 14 0.00 0.00 e0.00 0.00 15 0.00 0.07 0.57 0.00 e0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.00 16 0.00 0.00 1.39 0.00 e0.00 e0.00 0.05 0.00 0.80 0.00 0.00 0.00 0.00 0.08 0.11 0.00 e0.00 e0.00 ---0.00 0.53 0.00 0.11 0.00 0.00 17 18 0.00 0.00 e0.00 4.34 0.00 0.00 0.00 0.00 0.00 0.58 19 20 0.00 0.00 0.00 0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 21 0.00 0.00 0.00 0.00 e0.00 0.00 0.00 0.06 0.00 0.00 0.00 22 23 0.00 0.00 0.00 0.00 0.35 e0.00 e0.00 e0 00 0.00 0.00 0.00 0.00 0.00 0.00 e0.00 24 0.00 0.00 0.00 0.48 e0.00 0.00 0.00 0.00 0.15 0.00 0.00 \_\_\_ 25 0.00 0.00 0.00 0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.00 26 0.00 0.00 0.00 0.00 e0.00 0.03 0.79 0.00 0.00 0.43 0.00 0.00 0.30 0.25 0.00 e0.00 e0.00 e0 00 0.00 0.31 0.00 0.00 0.52 0.00 27 0.00 28 0.00 e0.00 29 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.51 0.00 0.00 ---0.00 30 0.00 0.00 0.00 0.59 0.02 0.63 0.05 0.00 0.00 31 0.00 0.00 2.43 \_\_\_ 0.00 0.00 0.00 0.00

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2.93

5.01

2.46

1.78

1.11

1.35

1.02

4.04

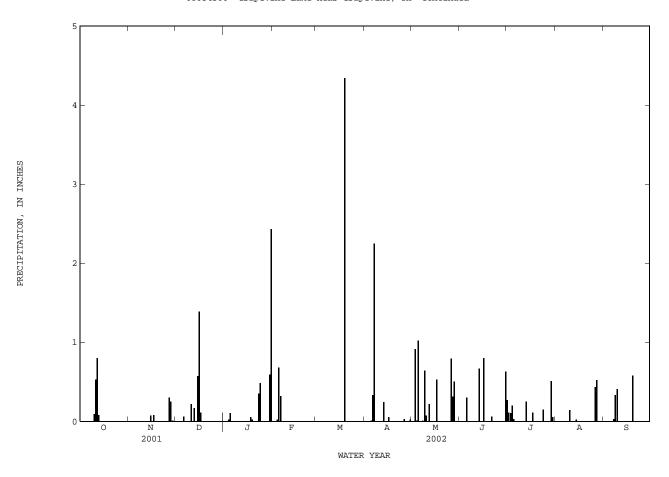
1.50

0.71

TOTAL

e Estimated

08054500 Grapevine Lake near Grapevine, TX--Continued



## 08054500 Grapevine Lake near Grapevine, TX--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1969 to Aug. 1986, Oct. 1997 to current year. BIOCHEMICAL DATA: Oct. 1969 to Aug. 1986, Oct. 1997 to current year. PESTICIDE DATA: Sept. 1999 to current year.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

# 325822097030401 -- Grapevine Lk Site AC

				3230	220970304	01 GI a	DCATIC TIV	DICE AC					
Date	Time	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
MAR 06 MAR	1153	144000	.61	1.00	365	8.4	9.0	11.0	97	1	E1k	130	19
06-06	1153												
06	1157			10.0	365	8.3	9.0	10.9	97				
06 06	1202 1206			20.0 30.0	366 366	8.4 8.4	8.5 8.5	11.0 11.0	96 96				
06	1210			40.0	366	8.4	8.5	11.0	96				
06	1215			49.0	367	8.3	8.5	10.8	94			130	15
MAY 15	1015	209000	.76	1.00	344	8.0	22.0	7.3	85	E2k	E2k	130	20
MAY 15-15	1015												
15	1019			10.0	345	8.0	22.0	7.3	85				
15	1024			20.0	345	8.0	22.0	7.3	85				
15	1029			30.0	345	8.0	22.0	7.3	85				
15	1033			40.0	345	8.0	22.0	7.2	84 55				
15 15	1037 1042			50.0 57.0	346 344	7.6 7.4	20.5 19.5	4.9 3.9	43			130	20
AUG 14	1152	175000	1.22	1.00	340	7.5	28.0	3.9	51			120	13
AUG													
14-14	1152 1156			10.0	340	 7.5	28.0	3.8	 50				
14 14	1200			20.0	343	7.3	27.5	3.2	42				
14	1204			30.0	346	7.2	27.5	1.9	25				
14	1209			40.0	371	7.1	25.0	. 2	2				
14	1214			52.0	374	7.0	24.5	.2	2			130	2
D. L.	CALCIUM DIS- SOLVED	MAGNE - SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	SODIUM AD- SORP- TION	220970304	01 Gra  POTAS- SIUM, DIS- SOLVED	CAR- BONATE WATER DIS IT FIELD	BICAR- BONATE WATER DIS IT FIELD	ALKA- LINITY WAT DIS TOT IT FIELD	SULFATE DIS- SOLVED	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L
Date	DIS-	SIUM, DIS-	DIS-	SODIUM AD- SORP-	SODIUM PERCENT (00932)	01 Gra POTAS- SIUM, DIS-	pevine Lk CAR- BONATE WATER DIS IT	Site AC BICAR- BONATE WATER DIS IT	LINITY WAT DIS TOT IT	DIS-	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED
Date  MAR  06 MAR	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
MAR 06 MAR 06-06	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 25 	01 Gra  POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06	DIS- SOLVED (MG/L AS CA) (00915) 42.4	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 25  	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06 06 06 06 MAY	DIS- SOLVED (MG/L AS CA) (00915) 42.4    42.3	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94	DIS- SOLVED (MG/L AS NA) (00930) 21.0    21.2	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 25     25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.21	CAR-BONATE WATER DIS IT FIELD MG/L AS (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5    22.8	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY	DIS- SOLVED (MG/L AS CA) (00915) 42.4    42.3 42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94    5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930) 21.0 	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)  25	01 Gra  POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06 06 06 MAY 15 MAY 15-15	DIS- SOLVED (MG/L AS CA) (00915) 42.4    42.3 42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930) 21.0    21.2 17.7	SODIUM AD- SORP- TION RATIO (00931)  .88 .7	SODIUM PERCENT (00932) 25    25 22	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.21   4.13 4.04	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5   22.8 18.6	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 2.5   2.4 4.3
MAR 06 MAR 06-06 06 06 06 06 4MAY 15 MAY 15	DIS- SOLVED (MG/L AS CA) (00915) 42.4    42.3 42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94    5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930) 21.0 	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.21	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5    22.8	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
MAR 06 MAR 06-06 06 06 06 MAY 15 MAY 15-15	DIS- SOLVED (MG/L AS CA) (00915) 42.4 	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7	SODIUM AD- SORP- TION RATIO (00931) .8	SODIUM PERCENT (00932) 25   25 22	O1 Gra  POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21  4.13 4.04	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5   22.8 18.6	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 2.5   2.4 4.3
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15	DIS- SOLVED (MG/L AS CA) (00915)  42.4  42.3  42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7	SODIUM AD- SORP- TION RATIO (00931)  .88 .7	SODIUM PERCENT (00932) 25   25 22  	O1 Gra  POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21  4.13  4.04	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5   22.8 18.6	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 2.5   2.4 4.3
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15 15 15	DIS- SOLVED (MG/L AS CA) (00915)  42.4  42.3  42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7	SODIUM AD- SORP- TION RATIO (00931)  .88 .7	SODIUM PERCENT (00932)  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.21   4.13 4.04	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134  136 129	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115	DIS- SOLVED (MG/L AS SO4) (00945) 35.3   35.2 28.7   	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5	RIDE, DIS- SOIVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 2.5   2.4 4.3
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15 15 15	DIS- SOLVED (MG/L AS CA) (00915)  42.4  42.3  42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02    5.14	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7  18.2	SODIUM AD- SORP- TION RATIO (00931)  .88 .77	SODIUM PERCENT (00932)  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21  4.13  4.04  4.02	CAR-BONATE WATER DIS IT FIELD MG/L AS (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115 112 107 110 109	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7    29.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5   22.8 18.6    18.5	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)  2.5 2.4 4.3 5.3
MAR 06 MAR 06-06 06 06 06 06 15 MAY 15 MAY 15 15 15 15	DIS- SOLVED (MG/L AS CA) (00915)  42.4  42.3  42.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.94   5.95 5.02	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7  18.2  18.1	SODIUM AD- SORP- TION RATIO (00931)  .88 .7	SODIUM PERCENT (00932)  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.21   4.13 4.04	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134  136 129	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  115	DIS- SOLVED (MG/L AS SO4) (00945) 35.3    35.2 28.7   29.2 27.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5	RIDE, DIS- SOIVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 2.5   2.4 4.3
MAR 06 MAR 06-06 06 06 06 06 15 MAY 15 MAY 15 15 15 15 14 AUG 14 AUG	DIS- SOLVED (MG/L AS CA) (00915)  42.4  42.3  42.8  42.8  37.8	SIUM, DIS- SOLVED (MG/L AS MG) (00925)  5.94  5.95  5.02 5.14  5.28	DIS- SOLVED (MG/L AS NA) (00930)  21.0  21.2  17.7  18.2  18.1	SODIUM AD- SORP- TION RATIO (00931)  .88 .77	SODIUM PERCENT (00932)  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.21 4.13 4.04 4.02 4.97	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134  136 129 131 129	LINITY WAT DIS TOT IT FIELD MG/L AS (39086)  115 112 107 112 107 1109 104	DIS- SOLVED (MG/L AS SO4) (00945) 35.3   35.2 28.7   29.2 27.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 22.5	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)  2.5 2.4 4.3 5.3 4.2

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# 08054500 Grapevine Lake near Grapevine, TX--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

Date	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	BENZENE TOTAL (UG/L) (34030)	ETHYL- BENZENE TOTAL (UG/L) (34371)
MAR 06	202	E.004	.32	<.04		.35	.005	<.02		<10	<2.0		
MAR 06-06													
06													
06													
06 06													
06 MAY	205	E.004	.32	<.04		.33	.005	<.02		<10	<2.0		
15 MAY	188	<.008	.58	<.04		.37	.022	E.01		<10	<2.0	.2	.1
15-15													
15 15													
15													
15		<.008	.58	<.04		.38	.022	E.01		<10	E1.2n		
15 15 AUG	192	<.008	.70	<.04		.32	.038	.03	.095	<10	E1.9b		
14 AUG	180	<.008	<.05	<.04		.33	.005	<.02		<10	E2.9	<.2	<.2
14-14													
14 14		<.008	 <.05	E.03		.36	.006	<.02		 E7	 19.3		
14		<.008	<.05	.06	.34	.41	.006	<.02		15	135		
14 14	203	<.008	<.05	 .61	.37	.98	.113	.10	.304	 517	1470		
				2050	000000000	01 0		~ ' . ~ ~					
				3258	220970304	ui Gra	pevine Lk	Site AC					
Date	TOLUENE TOTAL (UG/L) (34010)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLIRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR	TOTAL (UG/L)	WATER UNFLTRD REC (UG/L)	TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06	TOTAL (UG/L)	WATER UNFLTRD REC (UG/L)	TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L)
MAR 06 MAR 06-06	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTR REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLIRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005  	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041	FURAN WATER FILTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15	TOTAL (UG/L) (34010)	WATER UNFLITAD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050      <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010      <.010	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041  	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLIRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005  	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041	FURAN WATER FILTRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)  3.6	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006    <.006	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)  <.006     <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050   <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010    <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041    <.041  	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15 15 15	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006     <.006	ACETO-CHLOR, WATER FLIRD REC (UG/L) (49260)  <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004     <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005    <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050    <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010    <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002    <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)  <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005 <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15 15 15 15 14	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006	ACETO-CHLOR, WATER FLITRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010    <.010     	ATE, WATER, DISS, REC (UG/L) (04028)  <.002    <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
MAR 06 06-06 06 06 06 06 06 15 MAY 15-15 15 15 15 15 15 15 14 AUG 14 AUG	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  3.6 2.5	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006 <.006 <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006 <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004 <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 < < < < < < <.	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)258482482482	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  (.020
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15 15 14 AUG 14-14 14	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  3.6 2.5	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006 <.006	ACETO-CHLOR, WATER FLITRD REC (UG/L) (49260)  <.006 <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004 <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  (.002 (.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)
MAR 06 06-06 06 06 06 06 06 15 MAY 15-15 15 15 15 15 15 15 14 AUG 14 AUG	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  3.6 2.5	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006 <.006 <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006 <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004 <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 < < < < < < <.	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)258482482482	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  (.020
MAR 06 MAR 06-06 06 06 06 06 06 15 MAY 15-15 15 15 15 15 14 AUG 14-14 14	TOTAL (UG/L) (34010)	WATER UNIFLITED REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  3.6 2.5	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006 <.006	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)  <.006 <.006 <.006 <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004 <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632) 258482482482	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050	FLUR-ALIN MAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <- <.002 <- <.002 <- <- <- <- <- <- <- <- <- <- <- <	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041    <.041    <.041	FURAN WATER FILTED 0.7 U GF, REC (UG/L) (82674)

# 08054500 Grapevine Lake near Grapevine, TX--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

							bearing my						
Date	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)
MAR 06													
MAR 06-06	<.005	<.006	<.018	<.003	E.020	.008	<.005	<.02	<.002	<.009	<.005	<.003	<.004
06													
06 06													
06													
06 MAY													
15 MAY													
15-15	<.005	<.006	<.018	<.003	E.044	.031	<.005	<.02	<.002	<.009	<.005	<.003	<.004
15 15													
15													
15 15													
15 AUG													
14													
AUG 14-14	<.005	<.006	<.018	<.003	E.051	.009	<.005	<.02	<.002	<.009	<.005	<.003	<.004
14 14													
14													
14 14													
				3258	220970304	01 Gra	pevine Lk	Site AC					
Date	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCORWATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
Date MAR 06	URON WATER FLTRD 0.7 U GF, REC (UG/L)	THION, DIS- SOLVED (UG/L)	LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)
MAR 06 MAR	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06 06	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06 06 06 06	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	PARA- THION, DIS- SOLVED (UG/L) (39542) <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011  	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06 06 06 06 MAY 15	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n  	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003  	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011  	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06 06 06 06 MAY	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n  	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003  	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011  	METON, WATER, DISS, REC (UG/L) (04037)
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002    <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007    <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003     <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01
MAR 06 MAR 06-06 06 06 06 06 404 15 MAY 15-15 15	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002     <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007     <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003     <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006     <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022            	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011     <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01
MAR 06 06 06 06 06 06 15 MAY 15 MAY 15 15	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002 <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007    <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003    <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15 15 15	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)  <.002    <.002    	NAPROP- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007    <.007   	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006   	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022    <.022      	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011    <.011   	METON, WATER, DISS, REC (UG/L) (04037)  (.01 (.01
MAR 06 06 06 06 06 06 15 MAY 15 MAY 15 15	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002 <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007    <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003    <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01
MAR 06 06 06 06 06 06 06 15 MAY 15 MAY 15 15 15 15	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)  <.002    <.002    	NAPROP- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007    <.007   	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006   	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022    <.022      	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011    <.011   	METON, WATER, DISS, REC (UG/L) (04037)  (.01 (.01
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15 15 15 15 15 14 AUG 14 AUG 14-14	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666)  <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027 <.027 <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006 <.006 <.006	MOL- INATE WATER FLURD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002 <.002 <.002 <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    <.006     <.006	ULATE WATER WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01
MAR 06 06 06 06 06 06 06 15 15 15 15 15 14 AUG 14-14 14	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027 <.027 <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022022031	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006 <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002   <.002	NAPROP- AMIDE WATER FILTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) 	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.022    <.022    <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  (.01 (.01 (.01 (.01 (.01 (.01 (.01 (.01 (.01 (.01 (.01 (.01
MAR 06 MAR 06-06 06 06 06 06 MAY 15 MAY 15-15 15 15 15 14 AUG 14 AUG 14 14	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027 <.027 <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022031031	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006 <.006 <.006	MOL- INATE WATER FLURD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002 <.002 <.002 <.002	NAPROP- AMIDE WATER FILTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) 	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01 <.01 <.01 <.01 <.01 < <.01 < < <
MAR 06 06 06 06 06 06 06 15 15 15 15 15 14 AUG 14-14 14	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027 <.027 <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415)  E.010n022022031	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006 <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002   <.002	NAPROP- AMIDE WATER FILTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) 	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.022    <.022    <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  (.01 (.

## 08054500 Grapevine Lake near Grapevine, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

# 325822097030401 -- Grapevine Lk Site AC

Date	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAR											
06											
MAR											
06-06	<.010	<.011	<.02	<.004	.149	E.01n	<.034	<.02	<.005	<.002	<.009
06											
06											
06											
06											
06 MAY											
ма: 15											
MAY											
15-15	<.010	<.011	<.02	<.004	.239	E.05	<.034	<.02	<.005	<.002	<.009
15					.233	E.05					
15											
15											
15											
15											
15											
AUG											
14											
AUG											
14-14	<.010	<.011	<.02	<.004	.213	.03	<.034	<.02	<.005	<.002	<.009
14											
14											
14											
14											
14											

325751097033001 -- Grapevine Lk Site AR

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)			OXYGEN, DIS- SOLVED (MG/L) (00300)	ATION)
MAR							
06 06 06 06 06	1230 1233 1237 1240 1244	1.00 10.0 20.0 30.0 37.0	365 365 365 365 366	8.3 8.3 8.6 8.7	9.0 8.5 8.5 8.5 8.5	10.9 10.9 11.0 10.9 10.9	97 95 96 95 95
15 15 15 15 15 15	1054 1056 1058 1100 1103 1106	1.00 10.0 20.0 30.0 40.0 48.0	344 344 344 345 345 344	8.0 8.0 8.0 7.9 7.8	22.0 22.0 22.0 22.0 21.5 21.5	7.3 7.2 7.2 7.2 6.9 6.3	85 84 84 84 80 73
14 14 14 14	1226 1229 1232 1235 1238	1.00 10.0 20.0 30.0 42.0	340 341 342 345 373	7.5 7.4 7.4 7.3 7.1	28.0 28.0 27.5 27.5 25.0	3.7 3.3 2.8 2.6	48 43 36 34 2

## 08054500 Grapevine Lake near Grapevine, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325930097053801 -- Grapevine Lk Site BC

				3259	300970538	ui Gra	pevine Lk	Site BC					
Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAR 06 06 06 06 MAY	1303 1307 1312 1317 1322	.61   	1.00 10.0 20.0 30.0 42.0	364 365 364 365 365	8.4 8.4 8.4 8.4	9.0 8.5 8.5 8.5	11.2 11.2 11.1 11.1	99 98 97 97 97	1   	E4k   	130    130	17    33	42.0    41.5
15 15 15 15 15	1126 1131 1135 1139 1143	.73    	1.00 10.0 20.0 30.0 40.0 50.0	348 347 348 347 346 349	8.2 8.2 8.1 8.1 7.4	22.5 22.5 22.5 22.5 22.5 22.5	7.5 7.5 7.5 7.6 7.5 3.2	88 88 89 88 36	<1k    	E3k    	130    130	18    19	43.9    43.4
14 14 14 14	1256 1301 1306 1312 1318	1.16   	1.00 10.0 20.0 30.0 43.0	328 329 329 332 371	8.1 8.0 7.9 7.7 7.0	29.0 29.0 29.0 28.5 25.5	5.1 4.8 4.8 4.2	68 64 64 56 3	  	   	110    130	17   	36.7   44.8
				3259	300970538	01 Gra	pevine Lk	Site BC					
Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
MAR 06	5.90	21.1	.8	25	4.19	2	133	112	35.5	22.9	.3	2.3	203
06 06	 												
06													
06 MAY	5.84	21.0	.8	26	4.19	<1	116	116	35.5	22.0	.3	2.1	191
15 15	5.09	17.9	.7	22	4.10	1	136	112	28.6	18.8	. 2	3.9	192
15													
15 15													
15 AUG	5.15	17.9	.7	22	4.29	<1	E134	110	28.5	18.7	.3	5.6	193
14	5.58	19.8	.8	26	5.02	1	116	97 	27.6	21.3	.3	4.0	178
14 14													
14 14	5.38	 17.6	.7	21	 4.96	1	 162	133	 17.5	20.2	.2	8.3	204
				3259	300970538	01 Gra	pevine Lk	Site BC					
	Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
	MAR 06		E.004	.30	<.04		.33	.005	<.02		<10	<2.0	
	06												
	06 06												
	06 MAY		E.004	.29	<.04		.30	.007	<.02		<10	<2.0	
	15		<.008	.51	<.04		.37	.016	E.01		<10	<2.0	
	15 15												
	15 15		<.008	 .53	 <.04		.33	.016	<.02		 <10	 <2.0	
	15	.63	.031	.66	E.02		.39	.039	.03	.095	<10	E3.0b	
	AUG 14		<.008	<.05	<.04		.32	.005	<.02		<10	E1.2	
	14 14		<.008	 <.05	<.04		.32	.006	<.02		 <10	 E2.0	
	14		<.008	<.05	<.04		.33	.006	<.02		<10	21.3	
	14		<.008	<.05	1.03	.41	1.4	.19	.19	.586	923	1230	

## 08054500 Grapevine Lake near Grapevine, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325933097081401 Grapevine Lk Site CC													
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
MAR													
06	1347	1.00	367	8.5	10.0	11.6	105		E.004	.29	<.04	.33	.004
06	1352	6.00	377	8.5	10.0	11.5	104		<.008	. 29	<.04	.31	.006
MAY 15	1208	1.00	359	8.5	23.5	9.2	110	.25	.011	.27	<.04	.38	.008
15	1214	12.0	357	8.3	23.5	7.7	91	.36	.009	.37	<.04	.36	.008
AUG	1214	12.0	337	0.5	23.0	7.7	21	.50	.005	. 3 /	1.01	.55	.007
14	1333	1.00	324	8.1	29.0	5.5	73		<.008	<.05	<.04	.33	.007
14	1338	10.0	324	8.0	29.0	5.2	69		<.008	<.05	<.04	.33	.006
				3259	330970814	ORTHO- PHOS- PHATE, DIS-	pevine Lk IRON, DIS-	MANGA- NESE, DIS-					

Date	PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR 06 06	<.02 <.02	<10 <10	E2.0b
MAY 15	<.02 <.02 <.02	E6 <10	E1.7b E1.2n
AUG 14 14	<.02 <.02	<10 <10	<2.0 <2.0

## 330106097094601 -- Grapevine Lk Site DC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
MAR													
06	1412	1.00	389	8.5	10.5	11.6	106		E.004	.29	<.04	.32	.005
06	1417	7.00	387	8.5	10.5	11.5	106		<.008	.23	< .04	.31	.006
MAY													
15	1238	1.00	364	8.1	23.0	7.1	84	.35	.023	.38	E.02	.43	.018
15	1243	10.0	358	8.1	23.0	7.1	84						
15	1248	15.0	356	8.1	23.0	7.1	84	.38	.021	.40	< .04	.42	.014
AUG													
14	1357	1.00	326	8.4	29.5	7.1	96		<.008	<.05	< .04	.35	.009
14	1402	10.0	331	8.1	29.5	5.3	71		<.008	<.05	< .04	.34	.006

330106097094601 -- Grapevine Lk Site DC

	ORTHO- PHOS- PHATE, DIS-	PHOS- PHATE, ORTHO, DIS-	IRON, DIS-	MANGA- NESE, DIS-
Date	SOLVED (MG/L AS P) (00671)			SOLVED (UG/L AS MN) (01056)
MAR				
06	<.02		<10	E2.3b
06	.02	.074	<10	E1.0n
MAY				
15	E.01		<10	E1.9b
15				
15	<.02		<10	E2.5b
AUG				
14	<.02		<10	<2.0
14	< .02		<10	< 2.0

## 08054500 Grapevine Lake near Grapevine, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

330207097103701 -- Grapevine Lk Site EC

Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAR 06 06 MAY	1438 1449	.18	1.00	401 406	8.5 8.5	12.0 12.0	11.5 11.3	109 107	E2k 	E13k 	140 140	19 18	45.5 46.0
15 15	1311 1317	.24	1.00 9.00	351 353	7.9 8.0	23.0 23.5	8.0 8.1	95 97	E20k 	E16k 	140 140	10 19	48.1 48.1
AUG 14 14	1419 1425	.21	1.00 9.00	332 330	8.4 8.2	29.5 29.0	6.9 6.7	93 89			110 110	14 15	34.2 33.9
				3302	070971037	01 Gra	pevine Lk	Site EC					
Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
MAR 06 06	6.34 6.40	24.0 24.2	.9	27 26	4.09 4.13	2 2	142 145	123 124	38.6 39.0	25.2 25.4	.3	1.9	220 223
MAY 15 15 AUG	4.79 4.84	15.6 16.0	.6 .6	19 19	4.16 4.18	1 <1	156 148	130 122	23.9 24.6	17.1 17.3	.3	4.6 4.3	198 194
14 14	5.45 5.41	20.0 19.3	.8	28 27	5.18 5.08	2 1	110 110	94 91	29.7 29.2	23.3 21.9	.3	5.4 5.2	180 175

330207097103701 -- Grapevine Lk Site EC

Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR 06		E.004	.39	<.04		.32	.008	<.02	<10	E2.6b
06		E.004	. 44	<.04		.32	.008	<.02	<10	E1.9b
MAY										
15	.38	.027	.40	.06	.38	.44	.023	<.02	<10	10.6
15	.37	.027	.40	.05	.42	.48	.022	E.01	<10	10.8
AUG										
14		<.008	<.05	< . 04		. 34	.008	<.02	<10	<2.0
14		<.008	<.05	<.04		.34	.006	<.02	<10	<2.0

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report: b -- Value was extrapolated below k -- Counts outside acceptable range n -- Below the NDV

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## 08055000 Denton Creek near Grapevine, TX

LOCATION.--Lat 32°59'13", long 97°00'45", Denton County, Hydrologic Unit 12030104, over center of channel at downstream side of bridge on State Highway 121, 1.3 mi downstream from Bakers Branch, 4.1 mi downstream from Grapevine Dam, 5.0 mi northeast of Grapevine and 6.1 mi upstream from mouth.

DRAINAGE AREA.--705  $\min^2$ .

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1997 to current year. BIOCHEMICAL DATA: Oct. 1997 to current year.

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
MAR 06	1340	63	373	8.0	9.0	11.5	102	120	12	40.5	5.72	20.3	.8
MAY 15	1000		350	8.1	21.5	9.5	109	130	18	42.6	5.09	18.5	.7
AUG 14	1200	99	354	7.4	27.0	5.7	72	120	10	40.6	5.39	20.0	.8
Date	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
MAR 06	25	4.01	2	134	112	35.5	22.2	.3	2.08	218	200	<10	E.004
MAY 15	23	4.13	<1	133	110	28.9	18.2	.2	4.54	198	190	<10	<.008
AUG 14	25	4.83	<1	138	114	25.5	21.0	.3	5.19	198	191	<10	E.005
Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
MAR 06	.31	<.04		. 29	.006	<.02		6.5	<1	.23	М	52	<.06
MAY 15	.59	<.04		.34	.026	E.01		5.4	<1	.16	2	53	<.06
AUG 14	E.03	.19	.39	.58	.030	.02	.061	5.4	2	.06	5	50	<.06
Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAR 06 MAY	<.04	<.8	.17	1.5	<10	E.06	1.1	E.01n	4.0	1.32	<2	<1	2
15 AUG	<.04	<.8	.17	1.3	<10	<.08	.7	<.01	1.8	1.87	<2	<1	<1
14	<.04	<.8	.22	.7	17	E.07	426	<.01	1.8	.99	<2	<1	2

## 08055000 Denton Creek near Grapevine, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
MAR 06 MAY 15 AUG 14	1.25 1.08 .77

Remark codes used in this report:
<--- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report: n -- Below the NDV  $\,$ 

#### 08055500 Elm Fork Trinity River near Carrollton, TX

LOCATION.--Lat 32°57'57", long 96°56'39", Dallas County, Hydrologic Unit 12030103, on Sandy Lake Road 350 ft upstream on right bank at TXU Electric Co. pump station. Prior to July 7, 1999 located near left bank at downstream side of bridge on Sandy Lake Road, 40 ft upstream from Carrollton Dam, 0.3 mi downstream from Denton Creek, 1.0 mi upstream from St. Louis Southwestern Railway Lines bridge, 2.3 mi northwest of Carrollton, and 18.2 mi upstream from mouth.

DRAINAGE AREA. -- 2,459 mi<sup>2</sup>

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan. 1907 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to Nov. 1923, published as "near Dallas".

REVISED RECORDS.--WSP 788: 1924. WSP 1148: Drainage area at former site. WSP 1632: 1908(M). WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 431.40 ft above NGVD of 1929. Prior to Nov. 1923, nonrecording gage at site 15.5 mi downstream at different datum. Nov. 1, 1923, to Nov. 13, 1934, nonrecording gage, and Nov. 14, 1934, to July 6, 1938, water-stage recorder at present site and datum. July 7, 1938, to Apr. 14, 1939, nonrecording gage at site 9.3 mi downstream at datum 22.94 ft lower. Apr. 15, 1939 to Sept. 30, 1955, water-stage recorder at site 8.5 mi downstream at datum 22.94 ft lower. Oct. 1, 1955, to Sept. 30, 1987, water-stage recorder at present site and at datum 2.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good, except those for Sept. 10-21, which are poor. Since water year 1954, at least 10% of contributing drainage area has been regulated. The city of Dallas diverts water from the pool at gage and from the river 14 mi downstream for municipal use. A wastewater treatment plant returns water to the river below the station. TXU Electric Co. diverts water from the pool at gage into North Lake for cooling water at their electric generating plant. No flow at times

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--47 years (water years 1908-54), 818 ft<sup>3</sup>/s (592,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1908-54).--Maximum gage height, about 19 ft May 25, 1908, present site and datum, from information by local resident; estimated discharge, 145,000 ft<sup>3</sup>/s, at site 8.5 mi downstream, from information by U.S. Army Corps of Engineers; maximum gage height subsequent to 1908, 16.5 ft, Apr. 26, 1942, present site and datum, from observation by National Weather Service; discharge at site 8.5 mi downstream, 90,700 ft<sup>3</sup>/s; no flow at times.

DISCHARGE FROM DCP, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

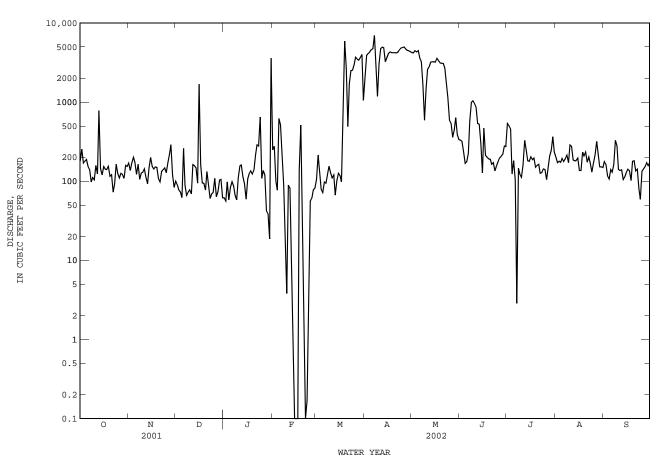
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as flood of May 25, 1908.

DAILY MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2.8 3.8 0.00 0 00 0.00 QΩ 0 59 2.2 0.00 0.17 8.1 1 / 0 499n 2.7 ---TOTAL 3302.06 6298.8 MEAN 160.3 150.4 241.5 117.9 203.2 193.2 148.6 355.0 MAX 0.00 2.8 MTN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002z, BY WATER YEAR (WY) MEAN 407 4 715 9 798 4 609 2 743 4 895 9 507 3 286 1 MAX (WY) MTN 27 8 4 21 0.78 0.80 2 06 3 30 43 5 38 4 80 0 94 9 58 2 14 8 (WY)

## 08055500 Elm Fork Trinity River near Carrollton, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1955 - 2002z
ANNUAL TOTAL	365286.9	295086.86	
ANNUAL MEAN	1001	808.5	862.8
HIGHEST ANNUAL MEAN			4289 1982
LOWEST ANNUAL MEAN			76.0 1978
HIGHEST DAILY MEAN	5760 Mar 24	6980 Apr 7	25300 May 5 1990
LOWEST DAILY MEAN	0.00 Feb 18	0.00 Feb 15	0.00 Dec 2 1954
ANNUAL SEVEN-DAY MINIMUM	36 Jan 7	22 Feb 20	0.00 Jan 7 1959
MAXIMUM PEAK FLOW		9990 Mar 19	33000 Sep 21 1964
MAXIMUM PEAK STAGE		9.69 Mar 19	13.48 May 5 1990
ANNUAL RUNOFF (AC-FT)	724500	585300	625000
10 PERCENT EXCEEDS	4200	3590	3840
50 PERCENT EXCEEDS	197	163	149
90 PERCENT EXCEEDS	73	73	38

z Period of regulated streamflow.



## 08055500 Elm Fork Trinity River near Carrollton, TX--Continued

#### PRECIPITATION RECORDS

PERIOD OF RECORD. -- Oct. 2001 to Sept. 2002 (discontinued).

TOTAL

1.52

0.77

3.29

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\_\_\_

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemtry. Datum of gage is 431.40 ft above NGVD of 1929. REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR. -- Maximum daily rainfall, 4.985 inches, Mar. 19.

PRECIPITATION DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY SUM VALUES DAY FEB лтт. AHG SEP OCT NOV DEC TAN MAR APR MAY TITIN 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.06 0.00 0.00 0.00 0.00 0.00 0.00 ---0.04 0.00 0.00 0.00 0.96 0.00 0.00 0.57 0.00 0.00 0.00 0.00 0.01 0.00 0.63 0.00 0.00 0.00 0.00 0.00 0.00 0.01 ---0.00 0.00 0.03 0.00 0.00 0.00 0.00 \_\_\_ 5 0.02 0.00 0.01 0.12 0.00 0.01 0.98 0.10 0.00 0.00 0.00 6 7 0.00 0.00 0.52 0 00 ---0.00 0.31 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 3.42 0.00 8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.18 0.01 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.02 0.00 0.66 0.00 0.00 0.00 0.00 10 0.08 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.00 0.00 0.00 0.00 11 0 59 0 11 0 17 0 00 0 00 0 03 0 00 0 00 0 00 0 00 0 00 0.00 12 0.67 0.00 0.01 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.15 0.00 0.17 0.00 0.00 0.00 0.42 0.00 0.28 0.12 0.00 0.00 13 14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 15 0.00 0.02 0.00 0.00 0.08 0.33 0.00 0.00 0.00 0.00 0.00 0.00 16 0 00 0.00 1 92 0 00 0 00 0.00 0.82 0 00 0.62 0 00 0 00 0.00 17 0.00 0.04 0.13 0.00 0.00 0.00 0.01 0.86 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.06 0.00 1.23 0.00 0.00 0.00 0.00 0.00 0.00 18 19 0.00 0.00 0.00 0.01 0.04 4 98 0 00 0.00 0.00 0 00 0.00 0.00 20 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 21 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 22 0.01 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.03 0.00 0.00 0.00 23 0.00 0.00 0.00 0.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 24 0.00 0.00 0 00 0.69 0.00 0.00 0 00 0.00 0.00 0 00 0 00 0 00 25 0.00 0.00 0.00 0.00 0.00 0.00 0.52 0.01 0.00 0.00 0.00 0.00 26 0 00 0 00 0 00 0.00 0 00 0 00 0 23 1 05 0 17 0 00 0 00 0 00 27 0.00 0.19 0.00 0.00 0.00 0.00 0.30 0.00 0.00 0.00 0.00 0.00 28 0.00 0.25 0.00 0.00 0.00 0.00 0.00 0.75 0.00 0.00 0.00 0.00 0.02 29 0.00 0.09 0.00 0.00 ---0.00 0.00 0.00 0.00 0.00 0.00 30 0.00 0.00 \_\_\_ 1.30 0.01 0.00 0.40 0.00 0.00 0.00 0.00 31 0.00 0.00 ------0.00 0.00 0.00 0.00

7.62

5.23

5.53

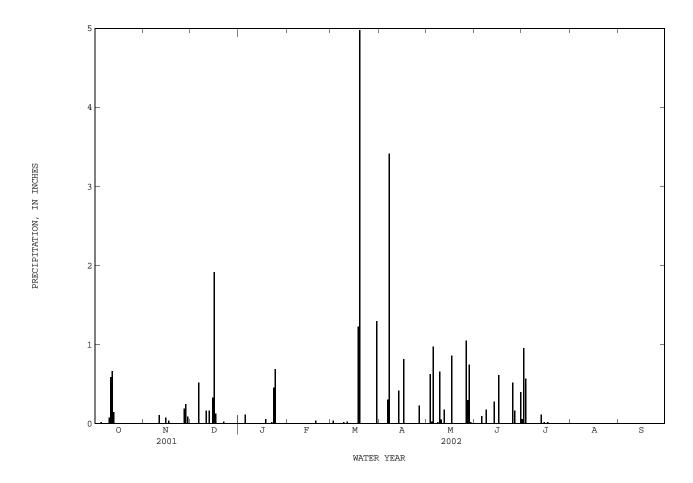
2.27

1.77

0.01

0.00

08055500 Elm Fork Trinity River near Carrollton, TX--Continued



## 08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX

LOCATION.--Lat 32°50′31", long 96°53′23", Dallas County, Hydrologic Unit 12030103, on right bank of dam, 0.7 mi downstream of Spur 482, and 4.4 mi northeast of city hall in Irving, Texas.

DRAINAGE AREA. -- 2,557 mi<sup>2</sup>.

PERIOD OF RECORD. -- Apr. 1999 to current year (elevations only).

GAGE.--Water-stage recorder and a concrete weir. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily elevations, which are fair. Water elevation is regulated by a concrete weir at gage.

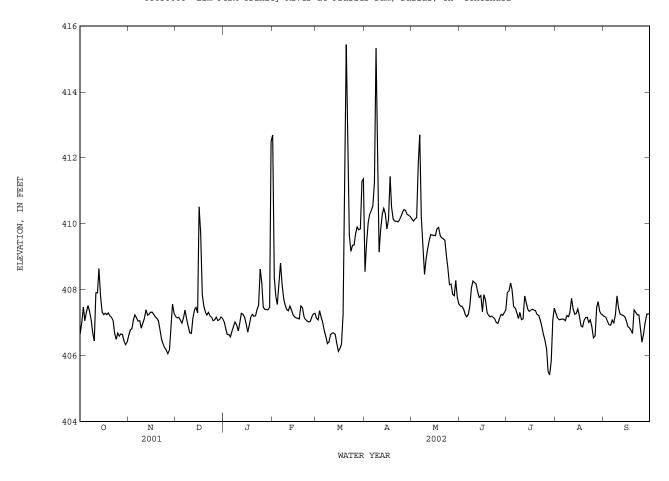
COOPERATION. -- Maintained in cooperation with City of Dallas Water Utilities.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 416.02 ft, Mar. 20; minimum elevation, 405.23 ft, July 27.

ELEVATION FROM DCP, in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	406.66	406.60	407.19	407.03	412.69	407.13	408.54	410.14	407.50	407.92	407.28	407.18
2	407.01	406.77	407.14	406.81	408.37	407.08	409.41	410.08	407.50	407.95	407.14	407.16
3	407.47	406.81	407.16	406.64	407.78	407.36	410.03	410.14	407.41	408.20	407.09	407.04
4	407.06	407.09	407.08	406.64	407.55	407.17	410.28	410.19	407.26	408.00	407.10	406.93
5	407.33	407.23	406.98	406.57	408.13	407.00	410.39	411.83	407.17	407.48	407.11	406.93
6	407.51	407.15	407.15	406.74	408.81	406.74	410.54	412.69	407.25	407.45	407.11	407.08
7	407.33	407.05	407.38	406.90	408.15	406.56	411.24	410.19	407.50	407.30	407.06	406.99
8	407.07	407.06	407.12	407.02	407.72	406.36	415.32	409.42	408.05	407.12	407.21	407.24
9	406.70	406.83	406.89	406.93	407.53	406.42	412.97	408.46	408.26	407.31	407.18	407.81
10	406.44	406.98	406.69	406.75	407.39	406.64	409.14	408.94	408.21	407.09	407.32	407.46
11 12 13 14 15	407.91 407.90 408.64 407.81 407.33	407.12 407.39 407.22 407.25 407.31	406.67 407.12 407.38 407.46 407.29	407.00 407.28 407.25 407.17 406.97	407.36 407.50 407.39 407.24 407.18	406.69 406.69 406.64 406.36 406.12	409.82 410.29 410.46 410.31 409.84	409.22 409.48 409.67 409.65 409.65	408.18 407.93 407.76 407.82 407.33	407.11 407.80 407.62 407.41 407.34	407.74 407.41 407.25 407.27	407.26 407.23 407.22 407.18 407.06
16	407.24	407.31	410.51	406.71	407.14	406.22	410.13	409.64	407.85	407.38	407.20	406.89
17	407.29	407.25	409.70	406.90	407.13	406.34	411.43	409.85	407.68	407.40	406.90	406.84
18	407.24	407.17	407.86	407.16	407.11	407.24	410.51	409.89	407.31	407.38	406.87	406.76
19	407.30	407.13	407.49	407.25	407.50	410.04	410.14	409.64	407.22	407.36	407.06	406.67
20	407.20	407.06	407.31	407.19	407.45	415.43	410.08	409.57	407.17	407.24	407.15	407.39
21	407.17	406.78	407.23	407.21	407.18	413.54	410.07	409.55	407.20	407.22	407.16	407.32
22	407.06	406.48	407.31	407.39	407.10	409.66	410.06	409.50	407.16	407.08	407.01	407.24
23	406.68	406.35	407.20	407.53	407.05	409.16	410.11	409.02	407.11	406.88	407.08	407.23
24	406.49	406.24	407.17	408.62	407.02	409.35	410.22	408.65	406.99	406.65	406.87	406.83
25	406.68	406.17	407.06	408.20	407.03	409.35	410.35	408.14	406.98	406.45	406.54	406.41
26 27 28 29 30 31	406.59 406.65 406.64 406.44 406.33 406.42	406.06 406.17 406.88 407.56 407.28	407.08 407.16 407.06 407.09 407.17 407.13	407.47 407.40 407.40 407.39 407.46 412.49	407.17 407.26 407.28 	409.69 409.90 409.81 409.84 411.28 411.35	410.43 410.40 410.28 410.25 410.21	408.17 407.86 407.82 408.28 407.76 407.56	407.13 407.25 407.22 407.30 407.39	406.20 405.53 405.41 405.84 407.09 407.44	406.59 407.46 407.64 407.34 407.26 407.22	406.66 407.00 407.25 407.27 407.25
MEAN	407.08	406.93	407.36	407.34	407.65	408.36	410.44	409.38	407.47	407.15	407.16	407.09
MAX	408.64	407.56	410.51	412.49	412.69	415.43	415.32	412.69	408.26	408.20	407.74	407.81
MIN	406.33	406.06	406.67	406.57	407.02	406.12	408.54	407.56	406.98	405.41	406.54	406.41

08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX--Continued



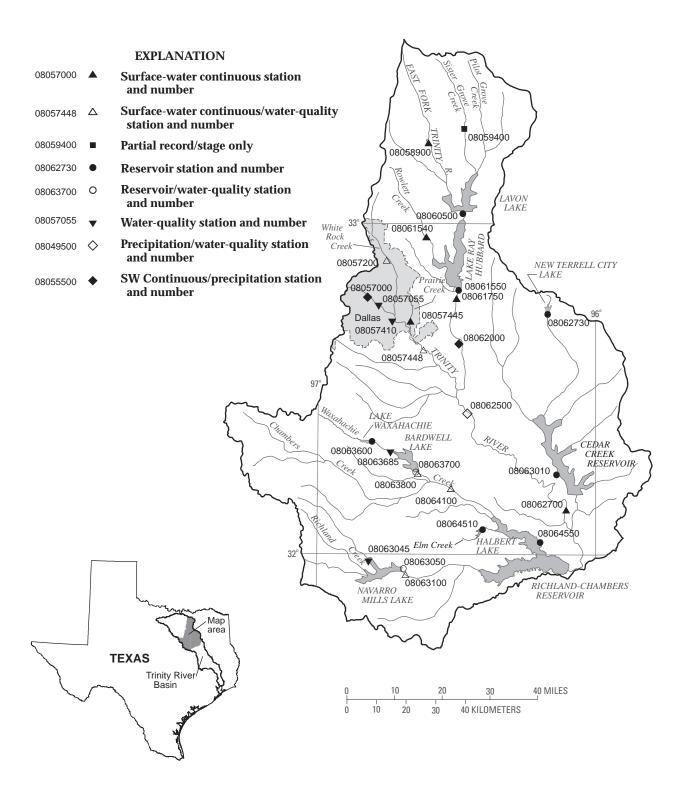


Figure 4.--Map showing location of gaging stations in the second section of the Trinity River Basin

08057000	Trinity River at Dallas, TX	166
08057055	Trinity River at Cedar Crest Boulevard, Dallas, TX	170
08057200	White Rock Creek at Greenville Avenue, Dallas, TX	178
08057410	Trinity River below Dallas, TX	190
08057445	Prairie Creek at U.S. Highway 175, Dallas, TX	194
08057448	Trinity River near Wilmer, TX	196
08058900	East Fork Trinity River at McKinney, TX	206
08059400	Sister Grove Creek near Blue Ridge, TX	208
08060500	Lavon Lake near Lavon, TX	210
08061540	Rowlett Creek near Sachse, TX	212
08061550	Lake Ray Hubbard near Forney, TX	214
08061750	East Fork Trinity River near Forney, TX	216
08062000	East Fork Trinity River near Crandall, TX	218
08062500	Trinity River near Rosser, TX	222
08062700	Trinity River at Trinidad, TX	236
08062730	New Terrell City Lake near Terrell, TX	238
08063010	Cedar Creek Reservoir near Trinidad, TX	240
08063045	Richland Creek near Irene, TX	248
08063050	Navarro Mills Lake near Dawson, TX	244
08063100	Richland Creek near Dawson, TX	254
08063600	Lake Waxahachie near Waxahachie, TX	258
08063685	Waxahachie Creek near Waxahachie, TX	260
08063700	Bardwell Lake near Ennis, TX	262
08063800	Waxahachie Creek near Bardwell, TX	270
08064100	Chambers Creek near Rice, TX	274
08064510	Halbert Lake near Corsicana, TX	288
08064550	Richland-Chambers Reservoir near Kerens, TX	290

#### 08057000 Trinity River at Dallas, TX

LOCATION.--Lat 32°46′29", long 96°49′18", Dallas County, Hydrologic Unit 12030105, on right bank (levee) 90 ft downstream from Commerce Street viaduct in Dallas, 5.2 mi downstream from confluence of West and Elm Forks, and at mile 500.3.

DRATNAGE AREA. -- 6.106 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1898 to Dec. 1899 (gage heights only published in WSP 28 and 37), July 1903 to current year. Daily discharges are not available for all periods prior to 1931.

REVISED RECORDS.--WSP 850: 1903-06 (monthly and annual means). WSP 1732: 1937(M). WSP 1922: Drainage area. WDR TX-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 368.02 ft above NGVD of 1929. Oct. 1, 1898, to Dec. 31, 1899, nonrecording gage at site 2 mi upstream at different datum. July 1, 1903, to July 20, 1930, nonrecording gage at present site and datum. July 21, 1930, to Sept. 30, 1932, nonrecording gage at site 6 mi downstream at datum 3.08 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1914, at least 10% of contributing drainage area as been regulated. The city of Dallas diverts water for municipal use from the Elm Fork, Lake Ray Hubbard (on the East Fork), and from Lake Tawakoni (on the Sabine River), and purchases water from North Texas Municipal Water District (from the East Fork). Wastewater effluent from the City of Dallas is returned to the river downstream from this station. The Trinity River Authority and the city of Fort Worth discharge wastewater effluent into the river upstream from this station. There are many other diversions upstream from this station for municipal, industrial and other uses.

AVERAGE DISHARGE FOR PERIOD PRIOR TO REGULATION.--10 years (water years 1904-13), 1,047 ft<sup>3</sup>/s (758,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1903-13).--Maximum discharge, 184,000 ft<sup>3</sup>/s May 25, 1908 (gage height, 52.6 ft), from rating curve extended above 109,000 ft<sup>3</sup>/s. Maximum stage since at least 1840, that of May 25, 1908.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

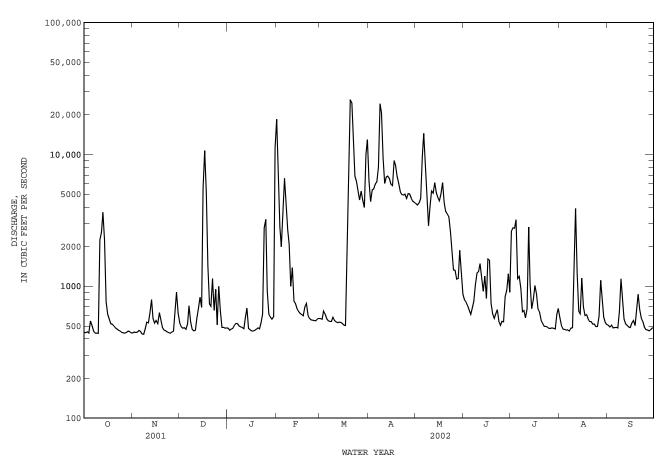
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as that of May 25, 1908.

DAILY MEAN VALUES DAY ОСТ NOV DEC JAN FEB MAR APR MAY .TTTN .TTTT. ATTG SEP e9470 e577 e678 e6850 ---\_\_\_ TOTAL MEAN 769.2 524.5 888.0 758.5 560.6 MAX MIN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002hz, BY WATER YEAR (WY) MEAN 705.1 790.8 MAX (WY) 58.2 76.9 91.5 51.9 50.2 MIN 68.2 53.0 62.4 68.2 68.0 52.4 

## 08057000 Trinity River at Dallas, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR	YEAR	FOR 2002 WAT	TER YEAR	WATER YEARS	1931 -	2002hz
ANNUAL TOTAL ANNUAL MEAN	838392 2297		756235 2072		1826		
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN					7154 115		1982 1956
HIGHEST DAILY MEAN LOWEST DAILY MEAN		b 17 g 2	26100 433	Mar 20 Nov 8	103000 10	Apr 26 Oct 1	
ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW	424 Aug	g 2	447 32400	Oct 26 Mar 20	26 111000	Apr 12 Apr 26	
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)	1663000		38.94 1500000	Mar 20	47.10 1323000	May 3	
10 PERCENT EXCEEDS 50 PERCENT EXCEEDS	6540 682		5490 618		5230 435		
90 PERCENT EXCEEDS	447		464		114		

e h z



Estimated See PERIOD OF RECORD paragraph. Period of regulated streamflow.

## 08057000 Trinity River at Dallas, TX--Continued

## PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

 ${\tt GAGE.--Tipping-bucket\ rain\ gage\ (no\ wind\ shields\ used)\ with\ satellite\ telemetry.}$ 

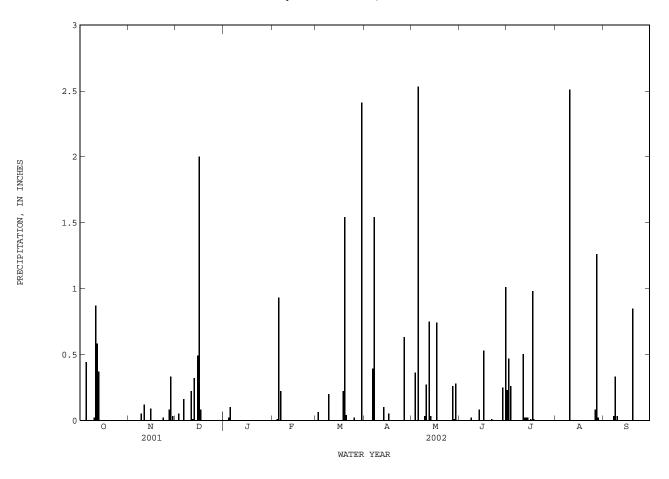
REMARKS. -- Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.526 inches, May 5.

		PRECIPI'	TATION FR	OM DCP,	in INCHES, DAIL	WATER YE. Y SUM VAL		2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.05 0.00	0.00 0.00 0.00 0.02 0.10	e0.00 e0.00  0.01 0.93	0.00 0.06 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.36 0.00 2.53	0.00 0.00 0.00 0.00 0.00	0.23 0.47 0.26 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.02	0.00 0.00 0.00 0.05 0.00	0.16 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.22 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.20 0.00	0.39 1.54 0.00 0.00 0.00	0.00 0.00 0.00 0.03 0.27	0.00 0.00 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 2.51	0.00 0.03 0.33 0.03 0.00
11 12 13 14 15	0.87 0.58 0.37 0.00 0.00	0.12 0.00 0.00 0.00 0.09	0.22 0.01 0.32 0.00 0.49	0.00 0.00 0.00 e0.00 e0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.10 0.00 0.00	0.00 0.75 0.03 0.00 0.00	0.00 0.00 0.08 0.00 0.00	0.50 0.02 0.02 0.02 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2.00 0.08 0.00 0.00 0.00	e0.00 e0.00  e0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.22 1.54 0.04	0.05 0.00 0.00 0.00 0.00	0.00 0.74 0.00 0.00 0.00	0.53 0.00 0.00 0.00 0.00	0.01 0.98 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.85 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.02	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.00 0.08 0.33 0.03 0.00	0.00 0.00 0.00 0.00 0.00	e0.00 e0.00 e0.00	0.00 0.00 0.00 	0.00 0.00 0.00 0.00 2.41 0.00	0.63 0.00 0.00 0.00 0.00	0.00 0.26 0.01 0.28 0.00	0.00 0.00 0.25 0.00 1.01	0.00 0.00 0.00 0.00 0.00	0.08 1.26 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL	2.28	0.72	3.33			4.49	2.71	5.26	1.90	2.52	3.87	1.24

e Estimated

## 08057000 Trinity River at Dallas, TX--Continued



## 08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX

LOCATION.--Lat  $32^{\circ}45'04"$ , long  $96^{\circ}47'07"$ , Dallas County, Hydrologic Unit 12030105, on right bank at abandoned bridge abutment, 0.2 mi upstream from Cedar Crest Boulevard. Bridge, 1.8 mi southeast of Dallas City Hall, 2.1 mi downstream from Coombs Creek, and 2.7 mi downstream from Commerce Street Bridge (station 08057000).

CHEMICAL DATA: Feb. 1984 to Sept. 1993. BIOCHEMICAL DATA: Feb. 1984 to Sept. 1993.

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: Feb. 1984 to current year. pH: Feb. 1984 to current year. WATER TEMPERATURES: Feb. 1984 to current year. DISSOLVED OXYGEN: Feb. 1984 to current year.

INSTRUMENTATION. -- Water-quality monitor since Feb. 1984.

REMARKS.--Records poor. Interruption in the record was caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request. Discharge records are available for Trinity River at Dallas (station 08057000), 2.7 mi upstream. There is no appreciable inflow between the two stations.

EXTREMES FOR PERIOD OF DAILY RECORD.

SPECIFIC CONDUCTANCE: Maximum, 1,030 microsiemens/cm, Feb. 12, 1988; minimum, 93 microsiemens/cm, Oct. 20, 1984. pH: Maximum, 9.0 units, June 27, 2000; minimum, 5.3 units, Feb. 1, 2002.

WATER TEMPERATURE: Maximum, 33.5°C, Aug. 12, 1987; minimum, 4.1°C, Dec. 27, 2000.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L, Feb. 8, 1989; minimum, 0.0 mg/L, July 21, 1985.

EXTREMES FOR CURRENT YEAR. --

SPECIFIC CONDUCTANCE: Maximum, 873 microsiemens/cm, Mar. 17; minimum, 214 microsiemens/cm, Feb. 6. pH: Maximum, 8.4 units, Jan. 24; minimum, 5.3 units, Feb. 1.
WATER TEMPERATURE: Maximum, 32.4°C, July 25; minimum, 8.4°C, Feb. 1.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Aug. 17, 18; minimum, 5.2 mg/L, Aug. 11.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1 2 3 4 5	792 793 804 791 791	767 762 780 766 319	776 771 790 779 697	750 780 787 788 791	735 740 775 780 753	742 760 782 784 772	690 758 762 787 788	656 685 726 737 761	676 725 745 755 772	778 777 766 769 768	754 738 735 751 742	765 759 750 761 754
6 7 8 9 10	723 766 773 778 784	673 701 755 761 760	694 734 764 770 776	767 793 770 770 805	751 767 757 742 687	756 782 764 752 749	777 763 721 747 759	726 636 636 703 729	758 708 698 727 744	798 794  	752 772  	771 784  
11 12 13 14 15	776   	338   	534   	786 775 760 624 655	708 665 617 606 617	764 722 707 614 634	759 766 734 623 631	680 729 540 538 231	745 748 656 576 567	  		  
16 17 18 19 20	614 627 656 699 716	535 605 625 642 667	575 611 644 673 687	725 759 794 814 710	655 718 751 710 661	694 737 765 766 676	   633	   535	   593	809 794 795 802 816	776 759 768 771 768	795 773 780 788 785
21 22 23 24 25	743 738 741 746 726	716 716 700 711 699	730 728 719 729 712	748 752 803 808 787	678 721 751 774 772	718 738 776 792 780	690 684 730 698 752	515 515 532 534 698	632 579 673 584 730	815 782 746 645 486	781 745 589 429 413	796 764 712 536 449
26 27 28 29 30 31	755 768 790 785 776 789	713 753 768 755 752 747	727 758 785 771 759 767	798 780 766 735 665	771 753 653 624 638	785 765 725 662 653	740 737 746 742 749 764	501 513 714 717 727 718	563 647 730 730 739 739	553 662 698 733 727	470 553 661 688 700	510 614 680 711 708
MONTH				814	606	737						

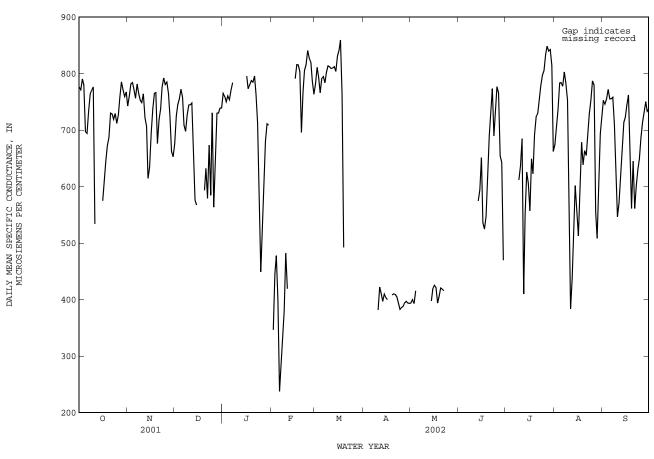
TRINITY RIVER BASIN

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08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	DI DOII	10 001,200		ritori ber,	211 007 011	0 200,	WILLIAM TERM	00102210	2001 10		2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
					MARGII			3 DD TT				
		FEBRUARY			MARCH			APRIL			MAY	
1				809	772	782				401	361	394
2	393	301	346	824	801	811				403	393	400
3	516	393	445	819	761	794				410	380	393
4 5	526	461	478	785	747	766 701				427	400	416
Э	561	224	399	805	780	791						
6	250	214	237	807	784	795						
7	317	250	282	796	774	784						
8	367	317	336	823	790	802						
9	399	364	379	827	796	814	420	220	201			
10	538	399	482	823	804	812	430	338	381			
11	513	393	419	824	795	809	434	399	422			
12				822	800	810	432	392	410			
13				822	806	812	413	390	397			
14				815	795	804	423	393	410	415	387	397
15				850	815	831	421	397	403	421	415	419
16	800	784	791	850	836	841	410	392	400	428	420	425
17	833	787	816	873	841	859				432	390	421
18	823	807	815	867	487	762				423	376	394
19	842	687	803	603	308	492	413	402	408	417	388	406
20	737	668	696				413	408	410	427	414	420
21	790	737	768				412	407	409	425	410	418
22	825	790	805				409	389	405	421	404	416
23	828	806	816				402	378	394			
24	855	825	841				399	367	382			
25	832	817	827				392	375	386			
26	000	000	000				100	200	200			
26 27	828 808	808 774	820 786				406 406	360 381	388 394			
28	774	756	763				400	392	397			
29							402	385	394			
30							396	388	393			
31												
MONTH												
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX		MEAN	MAX		
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
1	MAX			MAX		MEAN	703		MEAN 674	765		ER 752
1 2		JUNE			JULY 		703 730	AUGUST 643 680	674 708	765 764	SEPTEMB 739 731	ER 752 746
1 2 3		JUNE  		 	JULY  		703 730 773	AUGUST 643 680 705	674 708 737	765 764 770	739 731 731	ER 752 746 755
1 2 3 4	  	JUNE  	  		JULY   	  	703 730 773 800	AUGUST 643 680 705 770	674 708 737 783	765 764 770 784	739 731 731 759	FR 752 746 755 772
1 2 3		JUNE  		 	JULY  		703 730 773	AUGUST 643 680 705	674 708 737	765 764 770	739 731 731	ER 752 746 755
1 2 3 4	  	JUNE  	  		JULY   	  	703 730 773 800	AUGUST 643 680 705 770	674 708 737 783	765 764 770 784	739 731 731 759	FR 752 746 755 772
1 2 3 4 5		JUNE		  	JULY	====	703 730 773 800 792 786 811	AUGUST 643 680 705 770 778 774 786	674 708 737 783 784 778 803	765 764 770 784 774 764 772	739 731 731 759 741 749 716	752 746 755 772 755 755
1 2 3 4 5		JUNE		   	JULY	  	703 730 773 800 792 786 811 796	AUGUST  643 680 705 770 778  774 786 739	674 708 737 783 784 778 803 782	765 764 770 784 774 764 772 778	739 731 731 759 741 749 716 533	752 746 755 772 755 755 758 710
1 2 3 4 5 6 7 8		JUNE		     620	JULY 605	    611	703 730 773 800 792 786 811 796 764	AUGUST  643 680 705 770 778  774 786 739 739	674 708 737 783 784 778 803 782 753	765 764 770 784 774 764 772 778 642	739 731 731 759 741 749 716 533 551	752 746 755 772 755 755 758 710 608
1 2 3 4 5		JUNE		   	JULY	  	703 730 773 800 792 786 811 796	AUGUST  643 680 705 770 778  774 786 739	674 708 737 783 784 778 803 782	765 764 770 784 774 764 772 778	739 731 731 759 741 749 716 533	752 746 755 772 755 755 758 710
1 2 3 4 5 6 7 8		JUNE		     620	JULY 605	    611	703 730 773 800 792 786 811 796 764	AUGUST  643 680 705 770 778  774 786 739 739	674 708 737 783 784 778 803 782 753	765 764 770 784 774 764 772 778 642	739 731 731 759 741 749 716 533 551	752 746 755 772 755 755 758 710 608
1 2 3 4 5 6 7 8 9		JUNE	======================================	    620 672	JULY 605 614	    611 636	703 730 773 800 792 786 811 796 764 783	AUGUST  643 680 705 770 778  774 786 739 739 315	674 708 737 783 784 778 803 782 753 613	765 764 770 784 774 764 772 778 642 609	739 731 731 759 741 749 716 533 551 526	752 746 755 772 755 755 758 710 608 546
1 2 3 4 5 6 7 8 9 10	       599	JUNE 552	      575	    620 672 761 567 630	JULY 605 614 349 338 431	    611 636 685 410 550	703 730 773 800 792 786 811 796 764 783 574 475 574	AUGUST  643 680 705 770 778  774 786 739 739 315 329 376 475	674 708 737 783 784 778 803 782 753 613 383 436 539	765 764 770 784 774 764 772 778 642 609 593 637 702	739 731 731 759 741 749 716 533 551 526 510 581 624	752 746 755 772 755 755 758 710 608 546 571 610 660
1 2 3 4 5 6 7 8 9 10 11 12 13 14	       599 620	JUNE	     575	    620 672 761 567 630 643	JULY 605 614 349 338 431 529	    611 636 410 550 625	703 730 773 800 792 786 811 796 764 783 574 475 574 625	AUGUST  643 680 705 770 778  774 786 739 739 315 329 376 475 573	674 708 737 783 784 778 803 782 753 613 383 436 539	765 764 770 784 774 764 772 778 642 609 593 637 702 725	739 731 731 739 741 749 716 533 551 526 510 581 624 698	752 746 755 772 755 755 758 710 608 546 571 610 660 714
1 2 3 4 5 6 7 8 9 10	       599	JUNE 552	      575	    620 672 761 567 630	JULY 605 614 349 338 431	    611 636 685 410 550	703 730 773 800 792 786 811 796 764 783 574 475 574	AUGUST  643 680 705 770 778  774 786 739 739 315 329 376 475	674 708 737 783 784 778 803 782 753 613 383 436 539	765 764 770 784 774 764 772 778 642 609 593 637 702	739 731 731 759 741 749 716 533 551 526 510 581 624	752 746 755 772 755 755 758 710 608 546 571 610 660
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	      599 620 673	JUNE 552 562 620	     575 594 651	    620 672 761 567 630 643 725	JULY 605 614 349 338 431 529 480	    611 636 685 410 550 625 606	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704	752 746 746 755 772 755 758 710 608 546 571 610 660 714 722
1 2 3 4 5 6 7 8 9 10 11 12 13 14	       599 620	JUNE	     575	    620 672 761 567 630 643	JULY 605 614 349 338 431 529	    611 636 410 550 625	703 730 773 800 792 786 811 796 764 783 574 475 574 625	AUGUST  643 680 705 770 778  774 786 739 739 315 329 376 475 573	674 708 737 783 784 778 803 782 753 613 383 436 539	765 764 770 784 774 764 772 778 642 609 593 637 702 725	739 731 731 739 741 749 716 533 551 526 510 581 624 698	752 746 755 772 755 755 758 710 608 546 571 610 660 714
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	      599 620 673 656 573 583	JUNE 552 562 620 457 493 515	    575 594 651 536 525	    620 672 761 567 630 643 725 691 685 683	JULY 605 614 349 338 431 529 480 499 457 505	   611 636 685 410 550 625 606	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 6621	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537	752 746 755 772 755 758 710 608 546 571 610 660 714 722 742 762 659
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	      599 620 673 656 573 583	JUNE 552 562 620 457 493 515 583	    575 594 651 536 525 547 616	    620 672 761 567 630 643 725 691 685 683 715	JULY 605 614 349 338 431 529 480 499 457 505 670	   611 636 410 550 625 606 556 649 623	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724 680	AUGUST  643 680 705 770 778  774 786 739 315 329 376 475 573 454 477 567 621 621	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 678 638	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735	739 731 731 739 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	      599 620 673 656 573 583	JUNE 552 562 620 457 493 515	    575 594 651 536 525	    620 672 761 567 630 643 725 691 685 683	JULY 605 614 349 338 431 529 480 499 457 505	   611 636 685 410 550 625 606	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 6621	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537	752 746 755 772 755 758 710 608 546 571 610 660 714 722 742 762 659
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	     599 620 673 656 573 583 654 714	JUNE 552 562 620 457 493 515 583 653	    575 594 651 536 525 547 616 690	    620 672 761 567 630 643 725 691 685 683 715 737	JULY 605 614 349 338 431 529 480 499 457 505 670 705	   611 636 685 410 550 625 606 649 623 692 723	703 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 567 621 621 640	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 638 663	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	       599 620 673 656 573 583 654 714	JUNE 552 562 620 457 493 515 583 653	    575 594 651 536 525 547 6690	   620 672 761 567 630 643 725 691 685 683 715 737	JULY 605 614 349 338 431 529 480 499 457 505 670 705	   611 636 410 550 625 606 556 649 623 692 723	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 567 621 640 631	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 638 663	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675	739 731 731 739 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	      599 620 673 656 573 583 654 714 749 789	JUNE 552 562 620 457 493 515 583 653 706 741 665	     575 594 651 536 525 547 616 690 730 773 689	    620 672 761 567 630 643 725 691 685 683 715 737 745	JULY  605 614  349 338 431 529 480  499 457 505 670 705	    611 636 685 410 550 625 606 649 623 692 723 729 752 778	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 724 680 672 677 716 743	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454 477 567 621 620 631 640 631 674 716	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 638 663 655 693 728	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	       599 620 673 656 573 583 654 714 749 789 752 776	JUNE 552 562 620 457 493 515 583 653 706 741 665 697	    575 594 651 536 525 547 616 690 730 773 689 731	   620 672 761 567 630 643 725 691 685 683 715 737 745 780 800 800	JULY 605 614 349 338 431 529 480 499 457 505 670 705	   611 636 410 550 625 606 556 649 623 723 729 752 778	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 567 621 640  631 674 716 735	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 638 663 655 693 728 753	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692	739 731 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 419 583 549 561 605	752 746 755 772 755 758 758 710 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	      599 620 673 656 573 583 654 714 749 789	JUNE 552 562 620 457 493 515 583 653 706 741 665	     575 594 651 536 525 547 616 690 730 773 689	    620 672 761 567 630 643 725 691 685 683 715 737 745	JULY  605 614  349 338 431 529 480  499 457 505 670 705	    611 636 685 410 550 625 606 649 623 692 723 729 752 778	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 724 680 672 677 716 743	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454 477 567 621 620 631 640 631 674 716	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 638 663 655 693 728	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583 549 561 605	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	      599 620 673 656 573 583 654 714 749 789 752 776 809	JUNE 552 562 620 457 493 515 583 653 706 741 665 697 746	    575 594 651 536 525 547 616 690 730 773 689 731 777	    620 672 761 567 630 643 725 681 685 683 715 737 745 780 800 809 822	JULY  605 614  349 338 431 529 480  499 457 505 670 705  714 712 755 782 786	    611 636 685 410 550 625 606 556 649 623 692 723 729 752 778 797 805	703 730 773 800 792 786 811 796 764 775 574 475 625 632 724 680 672 677 7716 743 778 796	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 621 621 640 631 674 716 735 778	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 638 663 655 693 728 753 787	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710	739 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583 549 561 605 605	752 746 755 772 755 758 710 608 546 571 610 660 714 722 7444 762 659 561 645 561 662 631 648 687
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	       599 620 673 656 573 583 654 714 749 789 752 776 809	JUNE	    575 594 651 536 525 547 616 690 730 773 689 731 777	   620 672 761 567 630 643 725 691 685 737 745 780 800 809 822	JULY 605 614 349 338 431 529 480 499 457 505 670 705 714 712 755 782 786	   6111 636 685 4100 550 625 606 556 649 623 723 729 752 778 777 805	703 730 773 800 792 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778 796	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 567 621 640  631 674 716 735 778	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 638 663 655 693 728 728 753 787	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730	739 731 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 9583 549 561 605 667 708	752 746 755 772 755 758 758 758 758 760 608 546 571 610 660 714 722 744 762 659 561 645
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	      599 620 673 656 573 583 654 714 749 789 752 776 809	JUNE 552 562 620 457 493 515 583 653 706 741 665 697 746 723 559 391	    5794 651 536 525 547 616 690 730 773 689 731 777 765 654 642	    620 672 761 567 630 643 715 685 683 715 737 745 780 800 809 822	JULY  605 614  349 338 431 529 480  499 457 505 670 705  714 712 755 782 786 816 841 831	   611 636 685 410 550 625 606 556 649 623 723 779 779 779 805	703 730 773 800 792 786 811 796 764 778 574 475 574 475 625 632 724 680 672 677 716 743 778 796	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 573 454  477 621 621 640 631 674 716 735 778 770 3460	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 638 663 728 753 787 780 555 508	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730 745 758	739 731 731 739 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583 549 561 605 667 708 715	752 746 755 772 755 758 710 608 546 571 610 660 714 722 744 762 659 561 645 645 646 647 744 747 747 747 748 749 749 749 749 749 749 749 749 749 749
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	        599 620 673 656 573 654 714 749 789 752 776 809	JUNE	    575 594 651 536 525 547 616 690 730 773 689 731 777	   620 672 761 567 630 643 725 691 685 683 715 737 745 780 800 809 822 857 857 848 847	JULY 605 614 349 338 431 529 480 499 457 505 670 705 714 712 755 782 786 816 841 831 835	   611 636 410 550 625 606 556 649 623 723 729 752 778 805 833 848 840 842	703 730 773 800 772 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778 796 793 809 567 645	AUGUST  643 680 775 770 778  774 786 739 315  329 376 475 573 454  477 567 621 640  631 674 716 735 778  770 336 460 562	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 638 663 728 728 728 753 787 780 555 508 607	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730 745 758 748	739 731 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 737 419 583 549 561 605 667 708 715 736 722	752 746 755 772 755 758 758 710 608 546 571 610 660 714 722 744 762 659 561 645 561 662 637 648 687
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	      599 620 673 656 573 583 654 714 749 789 752 776 809	JUNE 552 562 620 457 493 515 583 653 706 741 665 697 746 723 559 391 322	    575 594 651 536 525 547 6690 730 773 689 731 777	   620 672 761 567 630 643 725 691 685 683 715 737 745 780 800 809 809 822 857 848 847 848	JULY  605 614 349 338 431 529 480 499 457 505 670 705 714 712 7552 786 816 841 831 831 835 734	   611 636 410 550 625 606 556 649 623 692 723 729 752 778 797 797 805	703 730 773 800 7792 786 8111 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778 796 793 809 567 645 725	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 567 621 640  631 674 716 735 778  770 336 460 562 645	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 663 663 728 728 753 787 780 755 508 607 694	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730 745 758 748 763	739 731 731 731 739 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583 549 561 605 667 708 715 736 722 723	752 746 755 772 755 758 758 758 710 608 546 571 610 660 714 722 744 762 659 561 645 561 602 631 648 687
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	        599 620 673 656 573 654 714 749 789 752 776 809	JUNE	    575 594 651 536 525 547 616 690 730 773 689 731 777	   620 672 761 567 630 643 725 691 685 683 715 737 745 780 800 809 822 857 857 848 847	JULY 605 614 349 338 431 529 480 499 457 505 670 705 714 712 755 782 786 816 841 831 835	   611 636 410 550 625 606 556 649 623 723 729 752 778 805 833 848 840 842	703 730 773 800 772 786 811 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778 796 793 809 567 645	AUGUST  643 680 775 770 778  774 786 739 315  329 376 475 573 454  477 567 621 640  631 674 716 735 778  770 336 460 562	674 708 737 783 784 778 803 753 613 383 436 539 602 552 513 602 678 638 663 728 728 728 753 787 780 555 508 607	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730 745 758 748	739 731 731 731 759 741 749 716 533 551 526 510 581 624 698 704 726 734 737 419 583 549 561 605 667 708 715 736 722	752 746 755 772 755 758 758 710 608 546 571 610 660 714 722 744 762 659 561 645 561 602 638 647 714 732 744 732 744 732 733
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	      599 620 673 656 573 583 654 714 749 789 752 776 809	JUNE 552 562 620 457 493 515 583 653 706 741 665 697 746 723 559 391 322	    575 594 651 536 525 547 6690 730 773 689 731 777	   620 672 761 567 630 643 725 691 685 683 715 737 745 780 800 809 809 822 857 848 847 848	JULY  605 614 349 338 431 529 480 499 457 505 670 705 714 712 7552 786 816 841 831 831 835 734	   611 636 410 550 625 606 556 649 623 692 723 729 752 778 797 797 805	703 730 773 800 7792 786 8111 796 764 783 574 475 574 625 632 567 629 724 680 672 677 716 743 778 796 793 809 567 645 725	AUGUST  643 680 705 770 778  774 786 739 315  329 376 475 567 621 640  631 674 716 735 778  770 336 460 632 645	674 708 737 783 784 778 803 782 753 613 383 436 539 602 552 513 602 678 663 663 728 728 753 787 780 755 508 607 694	765 764 770 784 774 764 772 778 642 609 593 637 702 725 735 760 777 736 684 675 583 635 649 692 710 730 745 758 748 763	739 731 731 731 739 741 749 716 533 551 526 510 581 624 698 704 726 734 537 419 583 549 561 605 667 708 715 736 722 723	752 746 755 772 755 758 758 758 710 608 546 571 610 660 714 722 744 762 659 561 645 561 602 631 648 687

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued



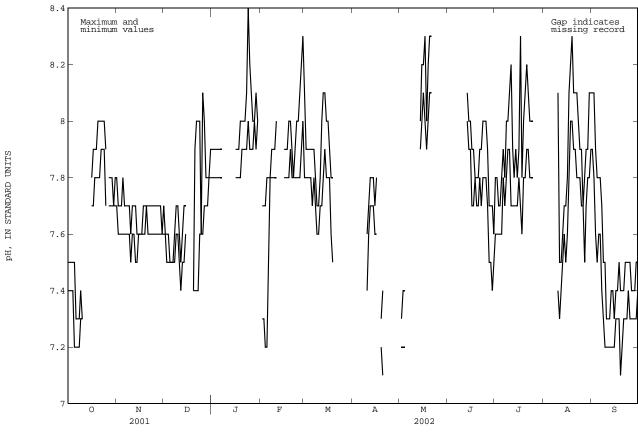
PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVEN	MBER	DECEM	/BER	JANU	JARY	FEBR	JARY	MAF	RCH
1 2 3 4 5	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.2	7.8 7.7 7.7 7.7 7.8	7.7 7.6 7.6 7.6 7.6	7.7 7.6 7.6 7.6 7.5	7.6 7.6 7.5 7.5 7.5	7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8	7.7 7.7 7.7 7.7 7.8	7.3 7.3 7.2 7.2	8.1 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.8
6 7 8 9 10	7.3 7.3 7.3 7.4 7.3	7.2 7.2 7.2 7.3 7.3	7.7 7.7 7.7 7.7 7.6	7.6 7.6 7.6 7.6 7.5	7.5 7.5 7.6 7.7	7.5 7.5 7.5 7.6 7.6	7.9 7.9 	7.8 7.8 	7.8 7.8 7.9 7.9	7.6 7.8 7.8 7.8 7.8	7.9 7.9 7.8 7.7 7.7	7.7 7.8 7.7 7.6 7.6
11 12 13 14 15	  	  	7.7 7.7 7.7 7.6 7.6	7.6 7.6 7.5 7.5	7.6 7.5 7.6 7.7	7.5 7.4 7.5 7.5 7.6	  	  	8.0  	7.8   	7.8 8.0 8.1 8.1	7.7 7.7 7.8 7.9 7.8
16 17 18 19 20	7.8 7.9 7.9 7.9 8.0	7.7 7.7 7.8 7.8 7.8	7.6 7.6 7.7 7.7	7.6 7.6 7.6 7.6 7.7	   7.4	   7.4	7.9 7.9 7.9 8.0 8.0	7.8 7.8 7.8 7.8 7.9	7.9 7.9 7.9 8.0 8.0	7.8 7.8 7.8 7.8 7.9	8.0 7.9 7.8 7.8	7.8 7.8 7.6 7.5
21 22 23 24 25	8.0 8.0 8.0 8.0 7.9	7.8 7.9 7.9 7.9	7.7 7.7 7.7 7.7 7.7	7.6 7.6 7.6 7.6 7.6	7.9 8.0 8.0 8.0 7.6	7.4 7.4 7.4 7.6 7.6	8.0 8.0 8.1 8.4 8.2	7.9 7.9 7.9 8.0 7.9	7.9 7.8 7.9 8.0 8.0	7.8 7.8 7.8 7.8 7.8	  	  
26 27 28 29 30 31	7.8 7.8 7.8 7.7 7.7	 7.7 7.7 7.7 7.7	7.7 7.7 7.7 7.7 7.6	7.6 7.6 7.6 7.6 7.6	8.1 8.0 7.8 7.8 7.8 7.9	7.6 7.7 7.7 7.7 7.8 7.8	8.1 8.0 8.0 8.1 8.0	7.9 7.9 8.0 7.9 8.0	8.1 8.2 8.3 	7.8 7.9 8.0 	   	
MONTH			7.8	7.5								

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	API	RIL	MZ	ΑΥ	JUI	NE	JUI	LY	AUG	JST	SEPTE	MBER
1 2 3 4 5			7.3 7.4 7.4	7.2 7.2 7.2 7.2	  	  	7.8 7.8 7.7 7.7 7.8	7.6 7.6 7.6 7.6 7.6	  	  	8.1 8.1 7.9 7.8 7.8	7.9 7.8 7.6 7.5 7.6
6 7 8 9 10	   7.6	   7.4	  	  	  	  	7.9 7.8 8.0 8.0	7.8 7.7 7.8 7.9 7.9	   8.1	   7.4	7.8 7.7 7.5 7.5 7.3	7.6 7.4 7.3 7.2 7.2
11 12 13 14 15	7.7 7.8 7.8 7.8 7.7	7.6 7.7 7.7 7.7 7.6	  8.0 8.2	  7.9 8.0	8.1 8.0 8.0	8.0 7.9	8.2 7.9 7.8 7.9 7.8	7.7 7.7 7.7 7.7 7.7	7.5 7.5 7.6 7.7 7.7	7.3 7.4 7.5 7.6 7.5	7.3 7.3 7.4 7.4 7.3	7.2 7.2 7.2 7.2 7.2
16 17 18 19 20	7.8  7.3 7.4	7.6  7.2 7.1	8.2 8.3 8.0 8.2 8.3	8.1 8.0 7.9 8.0 8.1	7.9 7.9 7.8 7.8 7.8	7.7 7.7 7.8 7.7 7.7	7.9 8.3 7.8 8.0 8.1	7.8 7.7 7.6 7.8 7.8	7.8 8.1 8.2 8.3 8.1	7.6 7.8 8.0 8.0 7.9	7.4 7.4 7.5 7.4 7.4	7.3 7.3 7.3 7.1 7.2
21 22 23 24 25	  	  	8.3   	8.1   	7.9 7.9 8.0 8.0	7.8 7.7 7.8 7.8 7.8	8.2 8.1 8.0 8.0	7.9 7.9 7.8 7.8	8.1 8.1 8.0 7.9	7.9 7.8 7.8 7.8 7.7	7.4 7.5 7.5 7.5 7.5	7.3 7.3 7.3 7.4 7.3
26 27 28 29 30 31			   		7.9 7.7 7.7 7.7 7.6	7.7 7.5 7.5 7.4 7.5	   		7.7 7.8 7.9 7.9 8.1 8.1	7.7 7.5 7.7 7.8 7.8 7.9	7.4 7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.3 7.4
MONTH											8.1	7.1



WATER YEAR

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

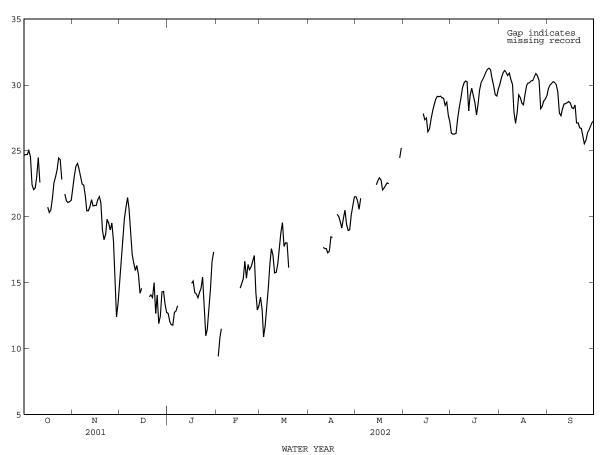
WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY		MIN		MAX			MAX			MAX		MEAN
2111	1221	OCTOBER		N			D			1.11.11.1	JANUARY	
1 2 3 4 5	25.8	23.8 24.0 24.0 24.3 23.5	24.7	23.0 24.0 24.9 24.7 24.5	21.3	22.1	16.1 18.2 19.3 20.6 21.3	13.9	15.0	13.4 12.6 12.7 12.6 13.3	12.0 11.4 11.2 10.8	12.7 12.1
6 7 8 9 10	23.6 23.2 22.9 23.9 25.7	21.6 21.3 21.5 22.4 23.6		23.7 23.2 23.3 22.4 21.0		23.1 22.5 22.4 21.6 20.5	22.0 21.6 20.1 17.9 17.3	20.9 20.1 17.5 16.5 15.6	21.5 20.6 19.0 17.1 16.5			12.9 13.3 
11 12 13 14 15	25.0   		22.6   	20.7 21.2 21.6 21.2 21.1	20.1 20.3 20.7 20.5 20.6	20.5 20.8 21.3 20.8 20.9	16.5 17.1 16.5 14.8 15.1	15.3 15.3 14.7 13.8 14.0	15.9 16.3 15.6 14.2 14.6	  		
16 17 18 19 20	21.4 21.0 21.4 22.6 23.7	20.0 19.8 19.8 20.5 21.7	20.7 20.3 20.5 21.4 22.6	21.3 21.9 21.9 21.8 19.6	20.5 20.8 21.1 19.6 18.3	20.9 21.3 21.5 21.1 19.0	   14.5		   13.9	16.0 15.5 14.7 14.9	14.7 13.9 13.5	14.9 15.1 14.3 14.2 13.9
21 22 23 24 25			23.0 23.6 24.5 24.3 22.8	19.0 19.7 20.9 20.2 19.8	17.7 17.8 18.8 18.8 18.3	18.3 18.7 19.8 19.5 19.0	15.2 15.3 16.1 13.5 15.0	12.6 12.6 12.8 12.1 13.4	14.1 13.9 15.0 12.7 14.1	15.2 15.0 16.5 16.5	14.3 14.8 11.2	15.4 13.5
26 27 28 29 30 31	22.1 21.9 22.1	21.2 20.6 20.4 20.5 20.5	21.7 21.2	20.5 19.4 16.8 13.2 14.4	18.7 16.8 13.2 11.3 12.6	19.5 18.2 14.9 12.4 13.5	14.7 14.3 15.2 15.1 14.0 13.4	10.8 10.6 13.6 13.8 13.0	11.9 12.5 14.3 14.3 13.4 12.8	12.3 13.9 15.6 17.4 17.7	10.8 12.1 13.6 15.4 16.9	11.4 12.9 14.5 16.6 17.3
MONTH				24.9	11.3	20.3						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
3	10.1 12.0 12.2	9.1 10.1 11.3	9.4 10.8 11.5	14.2 14.4 11.7 13.1 14.7	13.6 11.3 10.0 10.6 12.4	13.9 13.0 10.9 11.7 13.3	  			22.0 21.6 21.2 21.9	20.5 20.1 21.1	21.5 21.2 20.6 21.4
6 7 8 9 10		12.1 13.6 15.2		15.9 17.4 18.1 18.0 16.6	13.7 15.6 17.2 16.0 15.0	14.7 16.5 17.6 17.1 15.7	   18.3		   17.7	  	 	
11 12 13 14 15		15.4   	  	16.0 17.9 18.9 20.2 20.0	15.4	16.5	18.3 18.1 17.7 18.3 19.0	17.1 17.1 16.9 16.8 18.1	17.6 17.6 17.3 17.4 18.5	  22.9 23.3	  21.9 22.2	  22.4 22.7
16 17 18 19 20	15.5 15.7 15.9 17.7 16.4	13.8 14.4 14.8 15.8 14.2	14.6 15.0 15.3 16.6 15.4	18.5 18.9 18.7 16.7	17.3 17.4 16.2 15.7	17.8 18.0 18.0 16.1	18.8  20.5 20.4	18.1  19.9 19.8	18.4  20.2 20.0	23.3 23.2 22.4 22.6 22.8	22.6 22.4 21.7 21.7 21.9	23.0 22.8 22.0 22.2 22.4
21 22 23 24 25	16.6 17.0 17.1 17.7	15.9 15.1 15.5 15.9 16.1	16.4 16.0 16.2 16.6 17.1	  	  	  	19.9 19.7 20.7 20.8 19.9	19.2 18.6 19.4 19.9 19.1	19.6 19.1 19.9 20.5 19.4	23.1 23.0 	22.1 21.7  	22.6 22.5  
26 27 28 29 30 31	16.1 14.0 14.3 	13.0 12.0 12.6 	14.2 13.0 13.3 	   	  	   	19.1 19.5 20.8 21.5 21.9	18.7 18.6 19.5 20.3 21.2	19.0 19.0 20.1 20.9 21.5	25.2 26.1	  23.7 23.8	  24.5 25.2
MONTH												

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2	WATER	TEMPERATURE	FROM DCP.	in	(DEGREES C).	WATER	YEAR	OCTOBER	2001	TO	SEPTEMBER	2.0	12
--	-------	-------------	-----------	----	--------------	-------	------	---------	------	----	-----------	-----	----

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST			SEPTEMBE	R
1 2 3 4 5	  	  	  	26.5 27.1 26.8 27.3 28.1	25.5 25.8 25.8 25.7 26.8	26.3 26.3 26.3 26.3 27.4	31.0 31.6 32.1 32.1 31.9	29.4 29.7 30.1 30.5 30.3	30.1 30.6 30.9 31.1 31.0	30.9 31.2 31.0 31.2 31.1	28.9 29.3 29.5 29.7 29.7	29.7 30.0 30.1 30.3 30.2
6 7 8 9 10	  	  	  	28.9 29.7 30.6 31.0 31.1	27.6 28.2 29.1 29.2 29.7	28.3 29.0 29.8 30.1 30.3	31.7 31.8 31.1 31.0 30.2	30.2 30.2 29.9 29.3 24.5	30.7 30.9 30.4 30.0 27.9	30.8 30.0 28.9 28.4 28.9	29.6 28.9 25.4 27.1 27.4	30.0 29.5 27.9 27.7 28.2
11 12 13 14 15	28.5 27.9 28.3	27.2 26.6 26.7	27.8 27.4 27.5	31.3 29.6 29.9 30.6 29.7	27.0 26.1 28.4 28.9 28.6	30.3 28.0 29.2 29.8 29.2	27.7 28.9 30.3 29.5 29.0	26.2 27.2 28.6 28.4 28.0	27.1 27.9 29.3 29.1 28.6	29.4 29.1 29.5 29.6 29.3	28.0 28.2 28.0 28.1 28.2	28.6 28.7 28.7 28.6
16 17 18 19 20	27.6 27.6 28.3 28.9 29.6	25.8 25.7 26.4 27.4 27.9	26.4 26.7 27.4 28.0 28.5	29.0 28.6 29.4 30.6 31.2	28.1 25.8 27.7 29.0 29.6	28.6 27.7 28.5 29.6 30.2	29.3 30.3 31.0 30.9 31.1	27.7 28.7 29.2 29.6 29.5	28.5 29.3 30.0 30.1 30.2	28.9 29.1 29.3 28.2 27.5	27.9 27.7 28.1 25.7 26.5	28.3 28.2 28.5 27.1 27.1
21 22 23 24 25	30.1 30.0 30.0 30.2 29.6	28.2 28.4 28.4 28.5 28.7	28.9 29.2 29.1 29.2 29.0	31.3 31.7 32.1 32.2 32.4	29.8 29.9 30.2 30.5 30.6	30.4 30.7 31.0 31.2 31.3	31.2 31.4 31.6 31.9 31.6	29.7 29.6 29.9 30.3 30.2	30.3 30.3 30.6 30.9 30.7	27.4 27.6 26.9 26.5 27.0	26.1 26.2 25.6 24.8 25.0	26.8 26.7 26.1 25.5 25.8
26 27 28 29 30 31	29.5 29.0 29.7 28.7 28.3	28.7 27.6 27.2 26.4 25.5	29.0 28.4 28.7 27.7 27.2	32.0 31.4 30.6 29.6 29.9 30.5	30.5 29.8 29.5 29.0 28.5 28.6	31.2 30.5 29.9 29.3 29.2 29.7	31.3 30.9 29.2 29.3 29.9 30.2	29.6 23.2 27.5 28.4 28.3 28.5	30.3 28.2 28.4 28.8 28.9 29.2	27.5 27.8 28.1 28.2 28.3	25.7 25.7 26.2 26.4 26.6	26.4 26.6 26.9 27.2 27.3
MONTH				32.4	25.5	29.2	32.1	23.2	29.7	31.2	24.8	28.0



DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

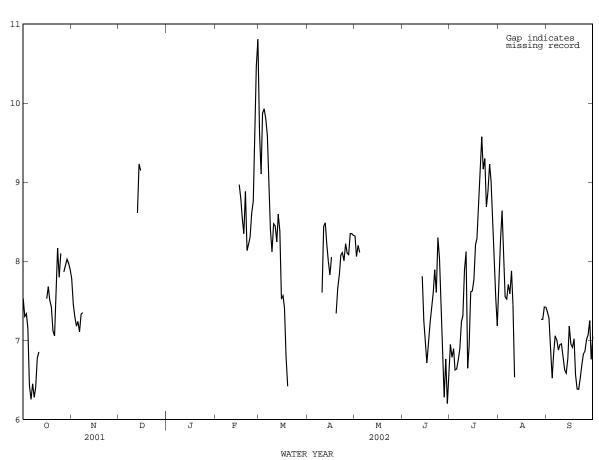
08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			ECEMBER			JANUARY	
-	0.0					7.0						
1 2	8.0 7.7	7.1 6.9	7.5 7.3	8.1 7.7	7.5 7.3	7.8 7.5						
3	7.8	6.9	7.3	7.7	7.1	7.3						
4 5	7.7 6.9	6.8 5.8	7.2 6.4	7.5 8.2	7.0 6.8	7.2 7.2						
6 7	6.6 6.7	5.8 6.2	6.3 6.5	7.5 7.7	6.8 7.1	7.1 7.3						
8	6.5	6.1	6.3	7.7	7.1	7.3						
9	7.0	5.9	6.4									
10	7.4	6.3	6.8									
11	7.3	6.5	6.9									
12 13							8.9	8.2	 8.6			
14							9.6	8.9	9.2			
15							9.6	8.8	9.1			
16	7.9	7.2	7.5									
17	7.9	7.4	7.7									
18 19	7.8 7.7	7.3 7.2	7.5 7.4									
20	7.3	6.9	7.1									
21	7.3	6.8	7.1									
22	8.8	6.8	7.6									
23	8.7	7.8	8.2									
24 25	8.2 8.7	7.4 7.5	7.8 8.1									
26 27	8.3	7.6	7.9									
28	8.4	7.6	7.9									
29	8.4	7.8	8.0									
30 31	8.3 8.2	7.7 7.7	8.0 7.9									
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY			MEAN	MAX		MEAN			MEAN	MAX		MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1		FEBRUARY		10.6	MARCH 9.0	9.6		APRIL		8.5	MAY 8.1	8.3
		FEBRUARY			MARCH			APRIL	 		MAY	
1 2 3 4	  	FEBRUARY		10.6 9.8 10.4 10.3	MARCH 9.0 8.4 9.4 9.4	9.6 9.1 9.9 9.9		APRIL	  	8.5 8.3 8.4 8.5	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3		FEBRUARY		10.6 9.8 10.4	MARCH 9.0 8.4 9.4	9.6 9.1 9.9		APRIL	 	8.5 8.3 8.4	MAY 8.1 7.8 7.9	8.3 8.1 8.2
1 2 3 4 5		FEBRUARY		10.6 9.8 10.4 10.3 10.4	9.0 8.4 9.4 9.4 9.1	9.6 9.1 9.9 9.9 9.8	  	APRIL	  	8.5 8.3 8.4 8.5	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3 4 5		FEBRUARY		10.6 9.8 10.4 10.3 10.4	9.0 8.4 9.4 9.4 9.1 9.0	9.6 9.1 9.9 9.9 9.8 9.6 9.0	   	APRIL		8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3 4 5 6 7 8 9		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9	9.0 8.4 9.4 9.1 9.0 8.5 7.9	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4		APRIL	     	8.5 8.3 8.4 8.5	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5	   	FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4	   	APRIL		8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3 4 5 6 7 8 9		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9	9.0 8.4 9.4 9.1 9.0 8.5 7.9	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4		APRIL	     	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.1 8.5	    8.0 8.8 8.7	APRIL 7.4 7.9 8.3	    7.6 8.4 8.5	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.1 8.5	   8.0 8.8 8.7 8.4	APRIL 7.4 7.9 8.3 8.1	    7.6 8.4 8.5 8.2	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.1 8.5	    8.0 8.8 8.7	APRIL 7.4 7.9 8.3	    7.6 8.4 8.5	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 7.3 6.8	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 8.5 8.4 7.5	   8.0 8.8 8.7 8.4 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.6	    7.6 8.4 8.5 8.2 8.0 7.8	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY		10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 9.2 8.8 9.4 9.8	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 7.3	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.1 8.5 8.4 8.2 8.4	8.8 8.7 8.4 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.6	    7.6 8.4 8.5 8.2 8.0 7.8	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	        9.3 9.3 8.9	FEBRUARY	       9.0 8.8 8.6	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 8.5 7.6 6.8	   8.0 8.8 8.7 8.4 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.9	    7.6 8.4 8.5 8.2 8.0 7.8	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	       9.3 9.3 8.9 9.2	FEBRUARY	9.0 8.8 8.6 8.3	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4 8.2	9.0 8.4 9.4 9.4 9.1 9.0 8.5 7.7 7.9 7.8 7.2 7.8 7.3 6.8	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 8.2 8.6 8.4 7.5	   8.0 8.8 8.7 8.4 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.6 7.9 7.1	    7.6 8.4 8.5 8.2 8.0 7.8 8.1	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	9.3 9.3 9.2 9.3	FEBRUARY	9.0 8.8 8.6 8.3 8.9	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 5.5	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 8.5 7.6 6.8 6.4	8.0 8.8 8.7 8.4 8.3 8.1 8.3	APRIL 7.4 7.9 8.3 8.1 7.6 7.6 7.9 7.1	    7.6 8.4 8.5 8.2 8.0 7.8 8.1	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	9.3 9.3 9.3 9.2 9.3	FEBRUARY	9.0 8.8 8.6 8.3 8.9	10.6 9.8 10.4 10.3 10.4 10.1 9.4 9.8.7 9.2 8.8 9.4 9.8 8.2 8.6 8.2 8.1	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 5.5	9.61 9.99 9.8 9.60 8.11 8.5 8.4 8.2 8.4 7.5 7.4 6.4	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.6 7.9 7.1 7.6	    7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	      9.3 8.9 9.2 9.3 8.7 8.6 8.8	FEBRUARY	      9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4 8.2 8.6 8.2 8.1	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 7.3 6.8 6.8 5.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.1 8.5 8.4 7.5 7.6 6.8 6.4	8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.1	APRIL 7.4 7.9 8.3 8.1 7.6 7.9 7.1 7.6 7.7 9.9 8.0	   7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.3 9.3 9.3 8.9 9.2 9.3 8.7 8.6 8.8 8.9	FEBRUARY	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.4 8.2 8.6 8.2 8.1	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 5.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.1 8.5 8.4 8.2 8.4 7.5 7.4 6.4 	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.1 8.3 8.3	APRIL 7.4 7.9 8.3 8.1 7.6 7.6 7.9 7.1 7.6 7.7 9.8 8.0 7.8	   7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	      9.3 8.9 9.2 9.3 8.7 8.6 8.8	FEBRUARY	      9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6 8.8	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4 8.2 8.6 8.2 8.1	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 7.3 6.8 6.8 5.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.1 8.5 8.4 7.5 7.6 6.8 6.4	8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.1 8.3 8.4	APRIL 7.4 7.9 8.3 8.1 7.6 7.9 7.1 7.6 7.7 9.8 8.0 7.8 8.1	    7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	9.3 9.3 9.3 9.2 9.3 8.7 8.6 8.8 9.4 9.5	FEBRUARY	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6 8.8	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 8.2 8.6 8.2 8.1	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 5.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.1 8.5 8.4 8.2 8.4 7.5 7.6 6.4 	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.4 8.3 8.4 8.3	APRIL 7.4 7.9 8.3 7.6 7.6 7.9 7.1 7.6 7.7 7.9 8.0 7.8 8.1 7.8	   7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7 7.8 8.1 8.1 8.1 8.0 8.2	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	      9.3 9.3 8.9 9.2 9.3 8.7 8.6 8.8 9.4	FEBRUARY	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.9 8.1 8.2 8.3	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 9.8 9.4 9.8 9.4 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10	9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 7.3 6.8 6.8 5.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 7.5 7.6 6.8 6.4 	8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.1 8.3 8.4	APRIL 7.4 7.9 8.3 8.1 7.6 7.6 7.91 7.6 7.7 7.9 8.0 8.1 7.8	    7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7 7.8 8.1 8.1 8.1 8.2	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	9.3 9.3 9.3 9.2 9.3 8.7 8.6 8.8 9.4 9.5	FEBRUARY	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6 8.8	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 8.2 8.6 8.2 8.1 	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 6.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.1 8.5 8.4 8.2 8.4 7.5 7.6 6.4 	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.4 8.3 8.1 8.3 8.1 8.3 8.3 8.4 8.7 8.7	APRIL 7.4 7.9 8.3 7.6 7.6 7.9 7.1 7.6 7.7 7.9 8.0 7.7 7.9 8.0 7.8 8.1 7.8	   7.6 8.4 8.5 8.2 8.0 7.8 8.1  7.3 7.7 7.8 8.1 8.1 8.1 8.2 8.1 8.1 8.1 8.2	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	9.3 9.3 9.3 9.3 8.9 9.3 8.9 9.3 10.6 11.5 11.8	FEBRUARY  8.6 8.3 8.3 7.9 8.5 7.8 7.8 7.8 8.0 8.1 8.6 9.6 10.0	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6 10.5 10.8	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 9.4 9.8 9.4 8.2 8.6 8.2 8.1 8.1	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 6.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.4 8.5 8.4 7.5 7.6 7.4 6.4 	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.4 8.3 8.1 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.7 8.6	APRIL  7.4  7.9 8.3 8.1 7.6 7.6 7.7 7.9 8.0 8.1 7.8 8.0 8.0 8.0 7.8 7.9	   7.6 8.4 8.5 8.0 7.8 8.1  7.3 7.7 7.8 8.1 8.1 8.1 8.2 8.1 8.1 8.1 8.2 8.3 8.3	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	9.3 9.3 9.3 9.2 9.3 8.7 8.6 8.8 9.4 9.5	FEBRUARY	9.0 8.8 8.6 8.3 8.9 8.1 8.2 8.3 8.6 8.8	10.6 9.8 10.4 10.3 10.4 10.1 9.4 8.9 8.7 9.2 8.8 9.4 8.2 8.6 8.2 8.1 	MARCH  9.0 8.4 9.4 9.1 9.0 8.5 7.9 7.7 7.9 7.8 7.2 7.8 6.8 6.8 6.8 6.5 5.7	9.6 9.1 9.9 9.9 9.8 9.6 9.0 8.1 8.5 8.4 8.2 8.4 7.5 7.6 6.4 	8.0 8.8 8.7 8.4 8.3 8.1 8.3 8.1 8.3 8.4 8.3 8.1 8.3 8.1 8.3 8.3 8.4 8.7 8.7	APRIL 7.4 7.9 8.3 7.6 7.6 7.9 7.1 7.6 7.7 7.9 8.0 7.7 7.9 8.0 7.8 8.1 7.8	   7.6 8.4 8.5 8.0 7.8 8.1  7.3 7.7 7.8 8.1 8.1 8.0 8.2	8.5 8.3 8.4 8.5 	MAY 8.1 7.8 7.9 7.8	8.3 8.1 8.2 8.1 

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		٤	EPTEMBE	R
1 2 3 4 5	  	  	  	7.2 7.1 7.1 6.8 6.8	6.7 6.6 6.6 6.4 6.5	7.0 6.8 6.9 6.6 6.6	8.2 9.1 9.7 8.8 8.4	7.2 7.7 7.9 7.4 6.7	7.6 8.3 8.6 8.0 7.6	8.1 8.1 7.4 7.2 7.8	6.9 6.7 6.1 5.6 5.6	7.4 7.3 6.9 6.5 6.9
6 7 8 9 10	  		  	7.1 7.2 7.6 7.8 8.8	6.3 6.6 6.9 6.8 7.2	6.8 6.9 7.2 7.3 7.9	8.5 8.8 8.3 8.6 8.0	6.9 6.5 7.1 7.2 6.4	7.5 7.7 7.6 7.9 7.5	7.8 7.6 7.1 7.2 7.2	6.6 6.5 6.5 6.8 6.7	7.1 7.0 6.9 6.9 7.0
11 12 13 14 15	 8.2 7.6 7.5	 7.3 6.8 6.6	 7.8 7.2 7.0	9.3 7.5 7.4 8.3 7.9	7.1 6.2 6.5 7.1 7.2	8.1 6.7 6.9 7.6 7.6	7.3   	5.2   	6.5   	7.0 6.9 6.9 7.8 7.8	6.6 6.4 6.2 5.9 6.6	6.8 6.6 6.8 7.2
16 17 18 19 20	7.1 7.2 7.7 7.8 8.4	5.5 6.7 6.8 7.1 7.0	6.7 7.0 7.2 7.4 7.6	8.0 8.6 8.8 9.4 10.0	7.5 7.9 7.8 8.3 8.5	7.8 8.2 8.3 8.8 9.2	  	  	  	7.3 7.5 7.4 7.4 6.7	6.3 6.2 6.1 5.9	7.0 6.9 7.0 6.6 6.4
21 22 23 24 25	8.6 8.0 9.1 8.8 8.0	7.3 7.2 7.5 7.3 6.7	7.9 7.6 8.3 8.0 7.3	10.7 10.3 9.8 9.6 10.0	8.7 7.6 8.8 7.9 8.3	9.6 9.2 9.3 8.7 8.9	  		  	6.9 7.1 7.4 7.4 7.4	6.0 6.1 6.3 6.3	6.4 6.5 6.7 6.8 6.9
26 27 28 29 30 31	7.4 6.9 6.9 6.7 6.9	6.2 5.3 6.5 5.8 6.3	6.8 6.8 6.2 6.6	10.4 9.8 9.2 8.5 7.9 7.8	7.8 8.3 8.1 7.7 6.9 6.5	9.2 9.0 8.6 8.1 7.5 7.2	 7.5 7.5 7.9 8.1	7.0 7.1 7.1 7.0	7.3 7.3 7.4 7.4	7.5 7.6 7.9 7.2 7.6	6.7 6.8 6.0 6.5	7.0 7.1 7.3 6.8 7.0
MONTH				10.7	6.2	7.9				8.1	5.6	6.9



DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER

## 08057200 White Rock Creek at Greenville Avenue, Dallas, TX

LOCATION.--Lat 32°53'21", long 96°45'23", Dallas County, Hydrologic Unit 12030105, on left bank 20 ft upstream from bridge on Greenville Avenue in Dallas, 1.1 mi downstream from Texas and New Orleans Railroad Co. bridge, 1.2 mi downstream from Cottonwood Creek, 2.9 mi upstream from White Rock Lake, and 8.2 mi northeast of Dallas County Courthouse.

DRAINAGE AREA.--66.4 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug. 1961 to Sept. 1980, Apr. 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 400 ft above NGVD of 1929. Prior to Oct. 24, 1961, nonrecording gage at same site and datum. Satellite telemeter at station.

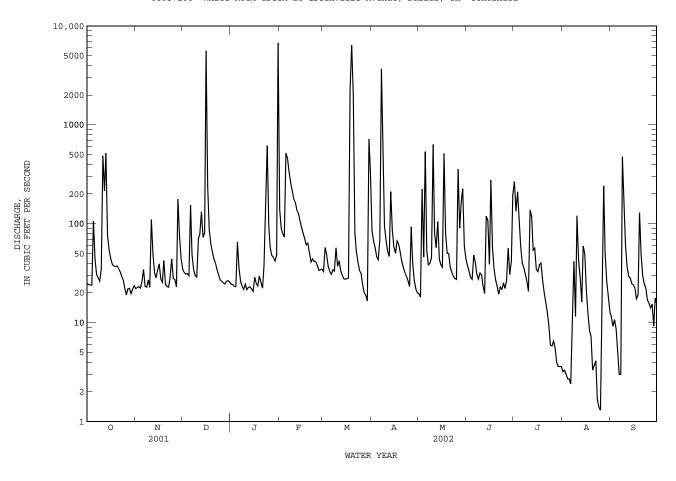
REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation. Low flow is affected by diversions from small dams upstream from station.

		DISCHARGE	FROM DCP,	CUBIC FEE		OND, WAT		OCTOBER 200	1 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	22	35	24	140	33	85	20	38	266	e3.2	11
2	24	22	32	24	89	57	67	18	33	133	e3.3	9.2
3	24	23	31	23	79	49	57	224	29	210	e3.0	11
4	24	22	31	23	74	37	47	46	27	106	e2.7	8.6
5	106	26	30	65	516	33	43	535	48	60	e2.7	e5.0
6	43	34	154	35	457	31	69	54	41	40	e2.4	e3.0
7	31	23	49	26	332	34	3680	38	31	36	e15.2	e3.0
8	28	23	35	23	259	33	1020	40	28	31	41	475
9	26	27	30	22	217	57	94	45	32	26	12	147
10	35	23	29	24	179	37	67	633	30	21	120	62
11	486	110	70	22	164	42	52	81	23	138	43	37
12	214	50	79	23	137	33	47	57	20	118	29	30
13	517	32	132	23	128	31	211	105	119	54	16	28
14	77	28	73	22	107	28	86	44	108	57	60	25
15	55	34	81	21	91	27	58	39	39	35	49	24
16	44	39	5600	29	79	28	50	36	277	33	21	23
17	39	28	239	25	70	28	67	514	58	39	12	17
18	37	26	86	23	61	2300	63	80	35	40	8.2	19
19	37	42	63	30	63	6380	52	50	27	27	7.3	129
20	37	25	51	26	51	2020	42	50	23	20	e3.3	48
21	35	23	44	22	41	81	36	36	19	e16	e3.7	30
22	33	23	40	37	44	53	32	32	23	e13	e4.1	24
23	30	29	34	158	42	41	30	29	22	e9.5	e1.7	22
24	27	44	30	614	42	34	27	28	25	e5.9	e1.4	17
25	22	28	27	94	38	31	23	27	22	e5.8	e1.3	16
26 27 28 29 30 31	19 22 22 20 22 24	27 23 178 75 44	26 25 25 26 27 26	57 48 46 42 48 6730	34 34 35 	24 20 19 17 717 340	93 41 27 22 20	357 90 168 225 60 44	26 56 31 42 197	e6.5 e5.6 e4.0 e3.6 e3.6 e3.6	5.9 241 51 26 19 13	14 15 e9.2 18 15
TOTAL	2185	1153	7260	8429	3603	12695	6308	3805	1529	1567.1	822.4	1295.0
MEAN	70.48	38.43	234.2	271.9	128.7	409.5	210.3	122.7	50.97	50.55	26.53	43.17
MAX	517	178	5600	6730	516	6380	3680	633	277	266	241	475
MIN	19	22	25	21	34	17	20	18	19	3.6	1.3	3.0
AC-FT	4330	2290	14400	16720	7150	25180	12510	7550	3030	3110	1630	2570
STATIST	TICS OF	MONTHLY ME	AN DATA F	OR WATER Y	EARS 1961	- 2002h	n, BY WAT	TER YEAR (WY	·)			
MEAN	90.84	70.79	99.43	62.13	100.2	119.5	122.5	156.2	93.79	37.85	26.07	58.40
MAX	450	388	627	394	516	480	690	460	800	252	108	624
(WY)	1995	2001	1992	1998	2001	1995	1966	1990	1989	1962	1994	1964
MIN	0.83	2.96	4.35	5.85	6.19	12.0	16.6	15.8	7.25	0.78	1.26	0.92
(WY)	1964	1964	1964	1976	1967	1971	1971	1972	1980	1964	1963	1963
SUMMARY	STATIS	STICS	FOR	2001 CALEN	DAR YEAR	F	FOR 2002	WATER YEAR		WATER YEAR	RS 1961 -	2002h
LOWEST HIGHEST LOWEST ANNUAL MAXIMUN MAXIMUN ANNUAL 10 PERC 50 PERC	MEAN TANNUAL ANNUAL TDAILY DAILY SEVEN-I M PEAK F M PEAK S	MEAN MEAN MEAN DAY MINIMUM FLOW STAGE (AC-FT) CEEDS CEEDS		56284.1 154.2 5710 6.7 8.5 111600 235 44 13	Feb 16 Jul 25 Aug 7		50651. 138. 6730 1. 3. 25700 89. 100500 160 34 14	Jan 31 3 Aug 25 0 Jul 31 Mar 19		87.20 201 20.8 14700 0.0: 39200 90.5: 63210 121 22 4.2	Sep 21 l Jul 8 l Aug 21 May 2	1970 1961

e Estimated

h See PERIOD OF RECORD paragraph.

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued



# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: May 1997 to current year. PESTICIDE DATA: May 1997 to current year.

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT 10 25	0900 1400	29 21	565 572	8.2 7.8	22.9 19.3	 8.6		153	63.8	38.7	1.95	.022	1.97
NOV 07 19 DEC	1100 1300	22 77	593 599	8.2 7.9	18.1 17.2	8.8 8.9	94 	167 	71.4	39.4	1.27	.013	1.28
05 20 JAN	1200 1130	32 50	607 568	8.0 7.8	17.3 9.4	8.5 10.8	89 	172 	69.0	38.0	2.11	.027	2.14
10 25 FEB	1130 0930	23 90	647 	8.1	11.6	12.0	112	202	83.2	40.0	2.50	.021	2.53
13 19 MAR	1630 1600	120 71	689 674	8.1 8.0	10.6 16.3	11.8 10.1	106	189 	79.7 	35.0	2.50	.026	2.53
05 13 20	0900 1600 1530	32 30 180	654 593 381	7.9 8.2 7.9	6.9 15.2 15.1	11.6 12.8 10.4	95 130 104	170 	73.7 	35.8 	2.44 1.93 1.61	.022 .030 .034	2.46 1.96 1.64
27 APR 02 10	1030 1050 1030	20 68 71	681 552 567	8.0 8.0 8.0	12.6 17.1 17.4	9.2 9.3	101 97 97	 190	 64.3	 23.7	2.69 2.15 2.18	.027	2.71 2.19 2.21
16 23 MAY	0900 1230	49 31	623 656	7.8 8.1	20.5	7.8 12.7	88 151	 			2.16 2.06 2.19	.032	2.09
07 15 21	0800 1130 1000	37 38 36	489 509 477	8.5 8.1 7.8	23.7 21.8 19.7	9.2 11.5 10.9	111 133 120	 157 	56.2 	23.9	1.55 2.06 1.74	.022 .032 .026	1.57 2.09 1.77
30 JUN 03	1000	86 29	382 541	7.4 7.6	22.7 25.6	9.2	109 138				1.49 2.01	.020	1.51 2.03
11 17 24	1030 1030 1430	23 79 25	534 358 474	7.4 7.6 7.9	26.4 25.1 30.3	9.1 10.1 13.4	115 125 180	125  	64.5  	33.8  	1.91 1.22 1.20	.032 .018 .016	1.94 1.24 1.22
JUL 09 23 AUG	1130 1030	29 11	465 560	8.3 7.9	30.0 28.6	12.7 9.4	168 121	124	53.6	27.4	1.24 2.34	.024	1.27 2.37
05 19 SEP	1230 1100	5.1 7.9	575 500	8.1 8.1	30.4 28.3	11.0 10.0	149 132	112	76.6 	44.9	3.24 1.85	.038	3.28 1.88
11	1000	37	383	7.9	25.1	8.9	110	99	40.6	18.9	1.20	.015	1.22

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	BENZENE TOTAL (UG/L) (34030)	2,4-D, DIS- SOLVED (UG/L) (39732)
OCT 10 25	<.04	2.5		.54 	.30	.24	.745	61.5	1.2	.86	11	<.04 E.02	.10
NOV 07 19	<.04	1.7		.47	.23	.16	.488	4.3	3.0	2.0	34	<.04 <.04	.05
DEC 05 20 JAN	<.04	2.7		.56 	.34	.26	.806	4.2	1.1	1.5	17 	<.04 E.04	E.19 
10 25 FEB	E.02	3.0		. 44	.23	.18	.555 	3.0	1.3	.50	8.0	<.04 E.02	.04
13 19 MAR	.10	3.0	.42	.51 	.123	.08	.258	3.0	1.3	8.1	25 	<.04 <.04	.13
05 13 20	<.04 <.04 .14	3.0 2.5 2.9	 1.1	.51 .52 1.3	. 25 . 21 . 27	.21 .13 .08	.632 .405 .251	3.7	7.6 	3.2	39 	 	.16 .42 .83
27 APR 02 10	E.03 .06 .06	3.1 2.9 2.8	.63 .51	.39 .69 .57	.133 .175 .133	.08	.242	 3.2	 2.5	 8.6	 45	<.04  <.04	.22
16 23 MAY	E.02 <.04	2.9		.84	.29	.05	.163	 					.48
07 15 21	<.04 <.04 <.04	2.1 2.6 2.2		.51 .50 .40	.134 .19 .183	.08 .13 .11	. 242 . 411 . 337	3.7	.8	.90 .62 .78	9.0 6.0 8.0	 <.04 	.17 .06 .04
30 JUN 03	<.04	2.1		. 60	.195	.13	.386			.70	3.0		.11
11 17 24 JUL	<.04 <.04 <.04	2.5 1.8 1.8	 	.53 .53 .55	.26 .163 .21	.22 .08 .15	.668 .258 .451	3.5  	1.0  	.43 .43 .34	7.0 2.0 5.0	<.04  	.11 .25 .11
09 23 AUG	<.04 <.04	1.8 2.9		.51 .54	.21 .50	.15 .41	.466 1.25	4.0	1.1	.23	3.0 4.0	<.04	E.79 <.02
05 19 SEP	E.02 .10	4.0 2.5	 .50	.71 .60	.79 .42	.77 .38	2.37 1.17	4.9	1.1	.14 .21	10 10	<.04	<.02 .07
11	<.04	1.7		.51	.161	.10	.316	4.0	1.1	.90	9.0	<.04	

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)
OCT													
10 25	<.02	<.002	<.006	<.004	<.007	<.002	<.04	<.02	<.008	<.005	E.106	<.050	<.010
NOV													
07	<.02	<.002	<.006	<.004	<.007	<.002	<.04	<.02	<.008	<.005	E.019		<.010
19 DEC													
05	<.02	<.002	<.006	<.004	<.007	<.002	<.04	<.02	<.008	<.005	.100	<.050	<.010
20													
JAN													
10	<.02	<.006	<.006	<.006	<.007	<.004	<.04	<.02	<.008	<.005	.167		<.010
25 FEB													
13	<.02	<.006	<.006	<.006	<.007	<.004	<.04	<.02	<.008	<.005	.513	< 050	<.010
19													
MAR													
05	<.02	<.006	<.006	<.006	<.007	<.004	<.04	<.02	<.008	<.005	.468		<.010
13	<.02	<.006	<.006	<.006	<.007	.027	<.04	<.02	<.008	<.005	.516		<.010
20 27	<.02 <.02	<.006 <.006	<.006 <.006	.009	<.104 <.097	.013	<.04 <.04	<.02 <.02	<.008 <.008	<.005 <.005	1.63 .609		E.005n <.010
APR	<.02	<.006	<.000	.012	<.097	.015	<.04	<.∪∠	<.006	<.005	.009	<.050	<.010
02	<.02	<.006	<.006	.013	<.007	.025	<.04	<.02	<.008	<.005	1.06	<.050	<.010
10	<.02	<.006	<.006	.013	<.007	.016	<.04	<.02	<.008	<.005	.880	<.050	
16	<.02	<.006	<.006	.029	<.007	.028	<.04	<.02	<.008	<.005	.799	<.050	
23	<.02	<.006	<.006	.011	<.007	.018	<.04	<.02	<.008	<.005	2.69	<.050	<.010
MAY 07	<.02	<.006	<.006	.015	<.007	.017	<.04	<.02	<.008	<.005	.712	< 050	<.010
15	<.02	<.006	<.006	.017	<.007	.020	<.04	<.02	<.008	<.005	.585	<.050	<.010
21	<.02	<.006	<.006	.010	<.007	.013	<.04	<.02	<.008	<.005	.496		<.010
30	<.02	<.006	<.006	<.006	<.007	.011	<.04	<.02	<.008	<.005	.403	<.050	<.010
JUN													
03	<.02	<.006	<.006	.013	<.007	.015	<.04	<.02	<.008	<.005	.338		<.010
11 17	<.02 <.02	<.006 <.006	<.006 <.006	<.015 <.007	<.007 <.007	.014	<.04 <.04	<.02 <.02	<.008 <.008	<.005 <.005	.343 E.373	<.050	<.010
24	<.02	r	<.006	r	<.007	r	<.04	<.02	<.008	r	.252	r	r
JUL		-	1.000	-	1.007	-		2	1.000	_	.232	-	-
09	<.02	<.006	<.006	<.006	<.007	.010	<.04	<.02	<.008	<.005	.312	<.050	<.010
23	<.02	<.006	<.006	<.010	<.007	<.015	<.04	<.02	<.008	<.005	.317	<.050	<.010
AUG 05	<.02	<.006	<.006	.009	<.007	.009	<.04	<.02	<.008	<.005	.357	<.050	<.010
19	<.02	<.006	<.006	<.009	<.007	<.009	<.04	<.02	<.008	<.005	.228		<.010
SEP	02	1.000	1.000	1.000	1.507	1.001	1.01	1.02	1.000	1.005	.220	1.050	1.010
11													

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)
OCT 10 25	<.01	<.03	<.02	<.002	M 	<.041	<.006	<.020	<.04	<.005	<.006	<.01	<.018
NOV 07 19 DEC	<.01	<.03	<.02	<.002	<.03	<.041	<.006	<.020	<.04	<.005	<.006	<.01	<.018
05 20 JAN	E.01	<.03	<.02	<.002	M 	E.007	<.006	<.020	E4.23	<.005	<.006	<.01	<.018
10 25 FEB	<.01	E.02	<.02	<.002	<.03	<.041	<.006	<.020	<.04	<.005	<.006	E.01 	<.018
13 19 MAR	<.01	<.03	<.02	<.002	M 	<.041	<.006	<.020	<.04	<.005	<.006	<.01	<.018
05 13 20	<.01 <.01 <.01	E.02 E.05 <.03	<.02 <.02 <.02	<.002 <.002 <.002	<.03 E.02 .06	E.008 E.065 E.066	<.006 <.006 <.006	<.020 <.020 <.020	<.04 <.04 <.04	<.005 <.005 <.005	<.006 <.006 <.006	<.01 <.01 <.01	<.018 <.018 <.018
27 APR 02	<.01	<.03	<.02	<.002	E.02	E.020	<.006	<.020	<.04	<.005	<.006	<.01	<.018
10 16 23	<.01 <.01 <.01 <.01	<.03 .01 <.03 <.03	<.02 <.02 <.02 <.02	<.002 <.002 <.002 <.002	E.03 .02 E.02 E.01	E.023 E.029 E.041 <.041	<.006 <.006 <.006	<.020 <.020 <.020 E.012	<.04 <.04 <.04 <.04	<.005 <.005 .008 <.005	<.006 <.006 <.006 <.006	<.01 <.01 <.01 <.01	<.018 <.018 <.018 <.018
MAY 07	<.01	<.03	<.02	<.002	E.03	E.043	<.006	<.020	<.04	E.004n	<.006	<.01	<.018
15 21 30	<.01 <.01 <.01	<.03 <.03 <.03	<.02 <.02 <.02	<.002 <.002 <.002	.03 .05 .05	E.061 E.111 E.115	<.006 <.006 <.006	<.020 <.020 <.020	<.04 <.04 <.04	<.005 E.003n .006	<.006 <.006 <.006	<.01 <.01 <.01	<.018 <.018 <.018
JUN 03 11 17	<.01 E.04 <.01	<.03 <.03 E.21	<.02 <.02 <.02	<.002 <.002 <.002	<.03 <.03 E.02	E.007 E.006 E.042	<.006 <.006 <.006	<.020 <.020 <.020	<.04 <.04 <.04	E.003n <.005 <.005	<.006 <.006 <.006	<.01 <.01 <.01	<.018 <.018 <.018
24 JUL 09	<.01 <.01	<.03	<.02	r <.002	<.03	r <.041	<.006 <.006	r <.020	<.04	r <.005	r <.006	<.01	r <.018
23 AUG 05	<.01	<.03	<.02	<.002	<.03	<.041	<.006	<.020	<.04	<.005	<.006	<.01	<.018
19 SEP	<.01	<.03	<.02	<.002 <.002	М	<.041 E.007	<.006	<.020 <.020	<.04	<.005	<.006	<.01 <.01	<.018
11													

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
OCT 10 25	<.01	<.003	E.03	.099	.04	<.01	<.005	<.01	<.02	E.02	<.002	<.009	<.005
NOV 07 19	<.01	<.003	E.01	.039	<.01	<.01	<.005	<.01	<.02	<.01	<.002	<.009	<.005
DEC 05 20 JAN	<.01	<.003	E.03	.053	.05	<.01	<.005	<.01	<.02	.02	<.002	<.009	<.005
10 25 FEB	<.01	<.003	E.031	.017	E.01	<.01	<.005	<.01	<.02	.02	<.002	<.009	<.005
13 19 MAR	<.01	<.003	E.043	.013	<.01	<.01	<.005	<.01	<.02	.02	<.002	<.009	<.005 
05 13 20	<.01 <.01 <.01	<.003 <.003 <.003	E.050 E.035 E.028	.015 .029 .242	<.01 .11 .06	<.01 <.01 .04	<.005 <.005 <.005	<.01 <.01 <.01	<.02 <.02 <.02	.02 .02 .04	<.002 <.002 <.002	<.009 <.009 <.009	<.005 <.005 <.005
27 APR 02	<.01	<.003	E.028	.076	.04	<.01	<.005	<.01	<.02	.02 E.04	<.002	<.009	<.005
10 16 23 MAY	<.01 <.01 <.01	<.003 <.003 <.003	E.022 E.034 E.058	.157 .178 .014	.11 .12 .10	.02 <.01 <.01	<.005 <.005 <.005	<.01 <.01 <.01	<.02 <.02 <.02	.09 E.03 .02	<.002 <.002 <.002	<.009 <.009 <.009	<.005 <.005 <.005
07 15 21	<.01 <.01 <.01	<.003 <.003 <.003	E.067 E.072 E.053	.186 .306 .222	<.01 .08 .12	<.01 <.01 <.01	<.005 <.005 <.005	<.01 <.01 <.01	<.02 <.02 <.02	.03 .02 .13	<.002 <.002 <.002	<.009 <.009 <.009	<.005 <.005 <.005
30 JUN 03	<.01 <.01	<.003 <.003	E.043 E.056	.218	.06	<.01 <.01	<.005 <.005	<.01 <.01	<.02 <.02	.09 E.04	<.002	<.009 <.009	<.005 <.005
11 17 24	<.01 <.01 <.01	<.003 <.003 r	E.073 E.050 E.05	.048 .162 r	.04 .05 <.01	<.01 <.01 <.01	<.005 <.005 r	<.01 <.01 <.01	<.02 <.02 r	.05 .99 .21	<.002 <.002 r	<.009 <.009 r	<.005 <.005 r
JUL 09 23 AUG	<.01 <.01	<.003 <.003	E.062 E.076	.048	<.01 <.01	<.01 <.01	<.005 <.005	<.01 <.01	<.02 <.02	.02	<.002 <.002	<.009 <.009	<.005 <.005
05 19 SEP	<.01 <.01	<.003 <.003	E.103 E.050	.165 .169	<.01 <.01	<.01 <.01	<.005 <.005	<.01 <.01	<.02 <.02	<.01 E.05	<.002 <.002	<.009 <.009	<.005 <.005
11													

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
OCT													
10	<.03	<.03	<.003	<.004	<.01		<.027	.03	<.01	<.008	<.004	E.006	<.006
25 NOV													
07	<.03	<.03	<.003	<.004	<.01	<.035	<.027	.17	<.01	<.008	<.004	E.006	<.006
19													
DEC													
05 20	<.03	<.03	<.003	<.004	<.01	<.035	<.027	.05	<.01	<.008	<.004	E.004	<.006
JAN													
10	<.03	<.03	<.003	< .004	<.01	<.035	<.027	.02	<.01	<.008	<.004	E.005	<.006
25													
FEB	0.0	0.0	000	004	0.1	0.05	0.05	1.0	0.1	000	004		005
13 19	<.03	<.03	<.003	<.004	<.01	<.035	<.027	.12	<.01	<.008	<.004	E.005n	<.006
MAR													
05	<.03	<.03	<.003	< .004	<.01	<.035	<.027	.09	<.01	<.008	<.004	E.012n	<.006
13	<.03	<.03	<.003	<.004	<.01	<.035	<.027	.16	<.01	<.008	< .004	.017	<.006
20	<.03	<.03	<.003	<.004	<.01		E.011n	.30	<.01	<.008	<.004	1.69	<.006
27	<.03	<.03	<.003	<.004	<.01	<.035	<.027	<.06	<.01	<.008	<.004	.233	<.006
APR 02	. 02	- 02	- 003	- 004	. 01	. 025	. 007	0.0	- 01	- 000	- 004	000	. 000
10	<.03 <.03	<.03 <.03	<.003	<.004 <.004	<.01 <.01		<.027 E.004n	.02	<.01 <.01	<.008 <.008	<.004 <.004	.889 .288	<.006 <.006
16	<.03	<.03	<.003	<.004	<.01	<.035	<.027	E.10	<.01	<.008	<.004	.172	<.006
23	<.03	<.03	<.003	<.004	<.01		<.027	.02	<.01	<.008	<.004	.261	<.006
MAY	1.05	1.05	1.003	1.004	1.01	1.055	1.027	.02	1.01	1.000	1.001	.201	1.000
07	<.03	<.03	<.003	< .004	<.01	<.035	<.027	.02	<.01	<.008	<.004	.071	<.006
15	<.03	< .03	< .003	< .004	<.01	<.035	<.027	.04	<.01	<.008	< .004	.116	<.006
21	<.03	<.03	<.003	<.004	<.01	<.035	E.012n	.04	<.01	<.008	<.004	.107	<.006
30	<.03	<.03	<.003	<.004	<.01	<.035	E.017n	E.01	<.01	<.008	< .004	.039	<.006
JUN													
03	<.03	<.03	<.003	<.004	<.01		<.027	E.01	<.01	<.008	< .004	.070	<.006
11	<.03	<.03	<.003	<.004	.11		<.027	<.02	<.01	<.008	<.004	.077	<.006
17	<.03	<.03	<.003	<.004	<.01		<.027	.05	<.01	<.008	<.004	.046	<.006
24	<.03	<.03	r	r	<.01	r	r	<.02	<.01	<.008	<.004	r	r
JUL 09	<.03	<.03	<.003	<.004	<.01	<.035	<.027	<.02	<.01	<.008	<.004	.044	<.006
23	<.03	<.03	<.003	<.004	<.01	<.035	<.027	<.02	<.01	<.008	<.004	.062	<.006
AUG	<.03	<.03	<.003	<.004	<.01	<.033	<.027	<.02	<.01	<.000	<.00₽	.002	<.000
05	<.03	<.03	<.003	<.004	<.01	<.035	<.027	<.02	<.01	<.008	< .004	.075	<.006
19	<.03	<.03	<.003	<.004	<.01		<.027	<.02	<.01	<.008	<.004	.032	<.006
SEP													
11													

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
OCT 10 25	<.002	<.007	<.01	<.02	<.02	<.01	<.003	<.007	<.006	<.002	.020	<.011	<.02
NOV 07 19	<.002	<.007	<.01	<.02	<.02	<.01	<.003	<.007	<.006	<.002	<.010	<.011	<.02
DEC 05 20	<.002	<.007	<.01	<.02	<.02	<.01	<.003	<.007	<.006	<.002	.037	<.011	<.02
JAN 10 25 FEB	<.002	<.007	<.01	<.02	<.02	<.01	<.003	<.010	<.006	<.004	<.022	<.011	<.02
13 19 MAR	<.002	<.007	<.01	<.02	<.02	<.01	<.003	<.010	<.006	<.004	<.022	<.011	<.02
05 13 20	<.002 <.002 <.002	<.007 <.007 <.007	<.01 <.01 <.01	<.02 <.02 <.02	<.02 <.02 <.02	<.01 <.01 <.01	<.003 <.003 <.003	<.010 <.010 <.010	<.006 <.006 <.006	<.004 <.004 <.004	.052 .075 .214	<.011 <.011 <.011	<.02 <.02 <.02
27 APR 02	<.002 <.002	<.007 <.007	<.01	<.02	<.02	<.01	<.003 <.003	<.010 <.010	<.006 <.006	<.004	.116	<.011 <.011	<.02
10 16 23	<.002 <.002 <.002	<.007 <.007 <.007	<.01 <.01 <.01	<.02 <.02 <.02	<.02 <.02 <.02	<.01 <.01 <.01	<.003 <.003 <.003	<.010 <.010 <.010	<.006 <.006 <.006	<.004 <.004 <.004	.080 .077 <.022	<.011 <.011 <.011	<.02 <.02 <.02
MAY 07 15	<.002 <.002	<.007 <.007	<.01 <.01	<.02 <.02	<.02 <.02	<.01 <.01	<.003 <.003	<.010 <.010	<.006 <.006	<.004 <.004	.028	<.011 <.011	<.02 <.02
21 30 JUN	<.002	<.007 <.007	<.01	<.02	<.02	<.01	<.003	<.010 <.010	<.006	<.004	E.018n .024	<.011	<.02
03 11 17 24	<.002 <.002 <.002 r	<.007 <.007 <.007 r	<.01 <.01 <.01 <.01	<.02 <.02 <.02 <.02	<.02 <.02 <.02 <.02	<.01 <.01 <.01 <.01	<.003 <.003 <.003 r	<.010 <.010 <.010 r	<.006 <.006 <.006 r	<.004 <.004 <.004 r	E.010n <.022 E.013n r	<.011 <.011 <.011 r	<.02 <.02 <.02 <.02
JUL 09 23 AUG	<.002 <.002	<.007 <.007	<.01 <.01	<.02 <.02	<.02 <.02	<.01 <.01	<.003 <.003	<.010 <.010	<.006 <.006	<.004 <.004	<.022 <.022	<.011 <.011	<.02 <.02
05 19 SEP	<.002 <.002	<.007 <.007	<.01 <.01	<.02 <.02	<.02 <.02	<.01 <.01	<.003 <.003	<.010 <.010	<.006 <.006		<.022 <.022	<.011 <.011	<.02 <.02
11													

# 08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)
OCT 10 25	E.01	<.010	<.011	<.02	<.010	E.023	<.004	.664	<.006	<.041	<.02	<.005	<.002
NOV 07 19 DEC	<.01	<.010	<.011	<.02	<.010	<.008	<.004	.891 	<.006	<.034	<.02	<.005	<.002
05 20 JAN	E.01	<.010	<.011	<.02	<.010	E.012	<.004	1.10	<.006	<.034	<.02	<.005	<.002
10 25 FEB	E.01 	<.010	<.011	<.02	<.010	.008	<.004	.527 	<.02	<.034	<.02	<.005 	<.002
13 19 MAR	<.01	<.010	<.011	<.02	<.010	E.005	.023	.437	<.02	<.034	<.02	<.005 	<.002
05 13 20	E.01n <.01 <.01	<.010 <.010 <.010	<.011 <.011 <.011	<.02 <.02 <.02	<.010 <.010 <.010	<.008 .009 .014	E.030 .034 .016	.746 1.05 3.38	<.02 E.01 <.02	<.034 <.034 <.034	<.02 <.02 <.02	<.005 <.005 <.005	<.002 <.002 <.002
27 APR 02	<.01	<.010	<.011	<.02	<.010	E.006	.018	1.86	E.01	<.034	<.02	<.005	<.002
10 16 23 MAY	E.01n E.01n E.01n	<.010 <.010 <.010	<.011 <.011 <.011	<.02 <.02 <.02	<.010 <.010 <.010	<.008 E.004 E.005	.019 .025 <.004	.783 .362 .104	<.02 <.02 E.03	<.034 <.034 <.034	<.02 <.02 <.02	<.005 <.005 <.005	<.002 <.002 <.002
07 15 21	E.01n .02 E.01n	<.010 <.010 <.010	<.011 <.011 <.011	<.02 <.02 <.02	<.010 <.010 <.010	E.005 E.006 <.008	<.004 <.025 E.004n	.315 .281 .233	<.02 <.02 <.02	<.034 <.034 <.034	<.02 <.02 <.02	<.005 <.005 <.005	<.002 <.002 <.002
30 JUN 03	.02	<.010	<.011	<.02	<.010	.011 E.005	<.004	.154	<.02	<.034	<.02	<.005	<.002
11 17 24	.02 .02 r	<.010 <.010 r	<.011 <.011 r	<.02 <.02 r	<.010 <.010 <.010	.009 .008 E.004	<.004 <.004 r	.107 .106 r	<.02 <.02 <.006	<.034 <.034 r	<.02 <.02 r	<.005 <.005 r	<.002 <.002 r
JUL 09 23	.02 E.01	<.010 <.010	<.011 <.011	<.02 <.02	<.010 <.010	E.007 E.007	<.004 <.015	.071 .056	<.02 <.02	<.034 <.034	<.02 <.02	<.005 <.005	<.002 <.002
AUG 05 19	.03	<.010 <.010	<.011 <.011	<.02 <.02	<.010 <.010	E.011 E.011	<.004 <.004	.070	E.01n <.02	<.034 <.034	<.02 <.02	<.005 <.005	<.002 <.002
SEP 11													

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued (National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 10 25	<.02	E.006
NOV 07 19 DEC	<.02	<.009
05 20 JAN	.03	<.009
10 25 FEB	<.02	<.009
13 19 MAR	E.02	<.009
05 13 20 27	<.06	<.009 <.009 E.005n <.009
APR 02 10 16 23	.05 .05 .03	E.003n E.003n <.009 <.009
MAY 07 15 21 30	<.02 .03 <.02 <.02	<.009 <.009 <.009 <.009
03 11 17 24	<.02 <.02 <.02 <.02	<.009 <.009 <.009 r
09 23 AUG		<.009 <.009
05 19 SEP	<.02 <.02	<.009 <.009
11		

Remark codes used in this report:
<-- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report: n -- Below the NDV  $\,$ 

Null value qualifier codes used in this report: r -- Sample ruined in preparation u -- Unable to determine-matrix interference

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### 08057410 Trinity River below Dallas, TX (National Water-Quality Assessment Program)

LOCATION.--Lat 32°42′26", long 96°44′08", Dallas County, Hydrologic Unit 12030105, on right bank at downstream side of bridge on South Loop Highway 12, 1.0 mi downstream from White Rock Creek, 1.5 mi upstream from Fivemile Creek, 6.4 mi southeast of Dallas County Courthouse in Dallas, and at mile 491.8.

DRAINAGE AREA. -- 6,278 mi<sup>2</sup>.

#### PERIOD OF RECORD. --

CHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to Sept. 2002.

BIOCHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to Sept. 2002.

BIOCHEMICAL DATA: Oct. 1970 to July 1981, Oct. 1994 to Sept. 1998, Oct. 2001 to Sept. 2002.

PESTICIDE DATA: Oct. 1970 to July 1981, Oct. 1994 to Sept. 1998, Oct. 2001 to Sept. 2002.

SEDIMENT DATA: Apr. 1972 to Apr. 1975, Oct. 1998 to Sept. 1999.

Water-discharge records.--Nov. 1956 to Sept. 1998.

#### PERIOD OF DAILY RECORD --

RIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.
pH: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.
WATER TEMPERATURE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.
DISSOLVED OXYGEN: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.

## EXTREMES FOR PERIOD OF DAILY RECORD. --

TREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,130 microsiemens/cm, Dec. 17, 1977; minimum, 112 microsiemens/cm, Oct. 20, 1984.
pH: Maximum, 8.8 units, Jan. 23, 1980; minimum, 6.5 units, Jan. 1,2 4, and 5, 1997.
WATER TEMPERATURES: Maximum, 35.0°C, Aug. 20, 25, 28, 31, 1972; minimum, 1.0°C, Jan. 29, 1968.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Mar. 19, 1990; minimum, 0.0 mg/L, on many days during spring and summer of 1977-1981.

		DIS- CHARGE, IN	SPE- CIFIC	PH WATER WHOLE			OXYGEN, DIS- SOLVED	ALKA- LINITY WAT DIS	SULFATE	CHLO- RIDE,	NITRO- GEN, NITRATE	NITRO- GEN, NITRITE	NITRO- GEN, NO2+NO3
		CUBIC FEET	CON- DUCT-	FIELD (STAND-	TEMPER- ATURE	OXYGEN, DIS-	( PER- CENT	TOT IT FIELD	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED
Date	Time	PER	ANCE	ARD	WATER	SOLVED	SATUR-	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
Date	110	SECOND	(US/CM)	UNITS)	(DEG C)	(MG/L)	ATION)	CACO3	AS SO4)	AS CL)	AS N)	AS N)	AS N)
		(00060)	(00095)	(00400)	(00010)	(00300)	(00301)	(39086)	(00945)	(00940)	(00618)	(00613)	(00631)
OCT													
11	1200	E680						100	78.3	68.6	11.1	.063	11.2
NOV	1200	2000						100	, 0.3	00.0		.005	
05	1200	E760	725	7.3	23.2	8.0	94	112	86.0	74.0	11.6	.059	11.7
DEC	1000	-0450	700		10.1		0.5	100	0.4.4	<i>.</i>	0.06	000	0.00
04 JAN	1200	E2470	700	7.5	19.1	8.8	96	128	84.4	65.5	9.06	.022	9.08
09	1130	E225	735	7.6	13.6	10.0	98	115	101	68.3	10.9	.017	10.9
FEB	1100	2223	, 55	,	13.0	10.0	,,,	110	101	00.5	10.5	.01,	10.5
13	1030	E880	669	7.5	12.9	10.0	95	130	95.6	48.1	7.24	.030	7.27
MAR													
13	1030	E485	796	7.6	16.6	10.0	104	131	106	71.4	10.2	.023	10.2
26 APR	0930	E4030	447	7.8	13.6	9.8	94	126	55.8	25.8	2.03	.016	2.05
09	1100	E24000	298	7.5	16.7	7.7	80	91	35.6	10.7	.77	.027	.80
23	0930	E4450	413	7.8	19.9	9.3	102				1.94	.012	1.95
MAY	0,50	21100	110	,.0	17.7	,,,	102				2.71	.012	1.75
14	0930	E5300	400	7.6	22.0	7.8	90	116	41.4	18.9	1.69	.018	1.71
29	1100	E2080	550	7.6	24.1	7.3	88				4.22	.043	4.26
JUN													
12	1040	E1400	544	7.3	27.0	7.5	96	119	59.1	39.5	3.94	.026	3.96
25 JUL	1015	E315	751	7.2	28.4	7.6	99				10.7	.032	10.7
10	1145	E365	628	7.5	30.1	12.5	165	106	73.3	51.2	7.05	.016	7.07
24	1030	E340	746	7.4	30.3	7.4	98				8.39	.043	8.43
AUG													
06	1130	E265	743	7.4	30.1	7.3	99	104	84.5	71.9	11.0	.045	11.0
20	1100	E340	667	7.3	29.6	7.6	102	100	73.7	63.2	8.39	.041	8.43
SEP	1100	7170	F.0.F		00.4	6 5	0.6	0.1	60 1	F0 0	7 05	0.4.4	7 00
12	1100	E170	595	7.3	28.4	6.5	86	91	69.1	52.0	7.05	.044	7.09

# 08057410 Trinity River below Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)
OCT 11	.15	13	1.2	1.4	2.07	1.44	4.42	7.7	.3	229	<.002	<.004	<.002
NOV 05	.31	13	1.0	1.3	1.90	1.75	5.37	7.1	1.7	23	<.002	<.004	<.002
DEC 04	.07	10	.96	1.0	1.66	1.52	4.65	5.9	2.1	48	<.002	<.004	<.002
JAN 09	.08	12	1.1	1.1	1.82	1.69	5.18	5.7	1.2	14	<.006	<.006	<.004
FEB 13	<.04	8.4		1.1	1.06	.96	2.94	5.4	1.9	38	<.006	<.006	<.004
MAR 13	<.04	11		1.1_	1.43	1.25	3.82	6.7	1.6	_==	<.006	<.006	<.004
26 APR	.10	2.8	.67	.77	. 49	.23	. 696			287	<.006	<.006	.010
09 23	.07 <.04	1.9 2.4	.99 	1.1 .45	.32 .36	.08 .22	.245 .665	4.9	6.0 	214	<.006 <.006	<.006 .011	.028 <.004
MAY 14 29	E.03	2.5 5.7	1.2	.81 1.4	.37	.21 .59	.644 1.80	4.7	2.7	164 175	<.006 <.006	.014	.088
JUN 12	.07	4.8	.82	.89	.76	.60	1.84	5.1	3.2	74	<.006	<.006	.065
25 JUL	.06	12	1.1	1.1	1.88	1.77	5.42			49	r	r	r
10	<.04	8.1 9.5	 .87	.98 1.0	1.25 1.91	1.08 1.76	3.31 5.39	5.1	2.7	51 38	<.006 <.006	<.006 <.006	.011
AUG 06	. 20	12	.89	1.1	2.13	1.90	5.82	5.8	1.7	44	<.006	<.006	<.004
20 SEP	.20	9.5	.84	1.0	1.94	1.75	5.35			55	<.006	<.006	<.004
12	E.03	8.2		1.2	1.52	1.33	4.07	6.5	3.1	44	<.006	<.006	<.004
Date	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
OCT	BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	PYRIFOS DIS- SOLVED (UG/L) (38933)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	AZINON, DIS- SOLVED (UG/L) (39572)
OCT 11 NOV	BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	PYRIFOS DIS- SOLVED (UG/L) (38933)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	AZINON, DIS- SOLVED (UG/L) (39572)
OCT 11 NOV 05 DEC	BHC DIS- SOLVED (UG/L) (34253) <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) <.041	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674) <.020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006	ZINE, WATER, DISS, REC (UG/L) (04041) <.018	WATER FLIRD 0.7 U GF, REC (UG/L) (82682) <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033	AZINON, DIS- SOLVED (UG/L) (39572) <.030
OCT 11 NOV 05 DEC 04 JAN	BHC DIS- SOLVED (UG/L) (34253) <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) <.041 <.041 E.006	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) < .020 < .020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021
OCT 11 NOV 05 DEC 04 JAN 09 FEB	BHC DIS- SOLVED (UG/L) (34253) <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208 .150	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002	BARYL WATER FLITRD 0.7 U GF, REC (UG/L) (82680) <.041 <.041 E.006	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) < .020 < .020 < .020 < .020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208 .150 .143 .444	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680) <.041 <.041 E.006 E.017 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 APR	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208 .150 .143 .444 .805	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 E.006 E.017 <.041 <.041 E.011	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005 .034
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208 .150 .143 .444	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680) <.041 <.041 E.006 E.017 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) .183 .208 .150 .143 .444 .805	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680) <.041 <.041 E.006 E.017 <.041 E.011 E.011	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033 E.029 E.032	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005 .034
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29 JUN 12 25	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  .183 .208 .150 .143 .444 .805 2.46 .024	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 E.006 E.017 <.041 <.041 E.011 E.025 E.069 E.037	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)   <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003  <.003 .003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003  </.003   </.003  </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </.003   </</td <td>ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033 E.029 E.032 E.037 E.037</td> <td>AZINON, DIS- SOLVED (UG/L) (39572) &lt;.030 .021 .025 .012 .029 &lt;.005 .034 .333 .052</td>	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.030 E.033 E.029 E.032 E.037 E.037	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005 .034 .333 .052
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29 JUN 12 25 JUL 10 24	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  .183 .208 .150 .143 .444 .805 2.46 .024 .660 .564	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 E.006 E.017 <.041 <.041 E.011 E.125 E.069 E.037 E.061 <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.033 E.029 E.033 E.029 E.037 E.007 E.052 E.053 E.052	AZINON, DIS- SOLVED (UG/L) (39572) <.030 .021 .025 .012 .029 <.005 .034 .333 .052 .074 .091
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29 JUN 12 25 JUL 10	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  .183     .208     .150     .143     .444     .344     .805  2.46     .024     .660     .564     .486    r     .375	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 E.006 E.017 <.041 E.011 E.125 E.069 E.037 E.061 <.041r <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.033 E.027 E.034 E.033 E.029 E.032 E.037 E.007 E.052 E.053 E.052	AZINON, DIS- SOLVED (UG/L) (39572)  <.030 .021 .025 .012 .029 <.005 .034 .333 .052 .074 .091 .020r .026

# 08057410 Trinity River below Dallas, TX--Continued (National Water-Quality Assessment Program)

Date	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
OCT 11	<.005	<.02	<.002	<.009	<.005	<.003	<.006	<.035	<.027	<.013	<.006	<.002	<.007
NOV 05	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.004	<.006	<.002	<.007
DEC 04	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.005	<.006	<.002	<.007
JAN 09	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.007	<.006	<.002	<.007
FEB 13	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.005n	<.006	<.002	<.007
MAR 13 26	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 <.027	E.009n .066	<.006 <.006	<.002 <.002	<.007 <.007
APR 09 23	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 <.027	.020 .035	<.006 <.006	<.002 <.002	<.007 <.007
MAY 14 29 JUN	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 E.020n	.033	<.006 <.006	<.002 <.002	<.007 <.007
12 25 JUL	<.005 r	<.02 r	<.002 r	<.009 r	<.005 r	<.003 r	<.004 r	<.035 r	<.027 r	.027 r	<.006 r	<.002 r	<.007 r
10 24 AUG	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	.009 <.013	<.035 <.035	<.027 <.027	.019 .014	<.006 <.006	<.010 <.002	<.007 <.007
06 20 SEP	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	.008 <.004	<.035 <.035	<.027 <.027	.020 .014	<.010 <.006	<.002 <.002	<.007 <.007
12	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.013	<.006	<.002	<.007
Date	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
Date OCT 11	DDE DISSOLV (UG/L)	THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)	CHLOR, WATER, DISS, REC (UG/L)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	MAZINE, WATER, DISS, REC (UG/L)	THIURON WATER FLTRD 0.7 U GF, REC (UG/L)
OCT 11 NOV 05	DDE DISSOLV (UG/L) (34653)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	MAZINE, WATER, DISS, REC (UG/L) (04035)	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
OCT 11 NOV 05 DEC 04	DDE DISSOLV (UG/L) (34653)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) <.002	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLITRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	MAZINE, WATER, DISS, REC (UG/L) (04035)	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
OCT 11 NOV 05 DEC 04 JAN 09	DDE DISSOLV (UG/L) (34653) <.003	THION, DIS- SOLVED (UG/L) (39542) <.007	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) <.010	WATER FLTRD 0.7 U GF, REC (UG/L) (82664) <.011	METON, WATER, DISS, REC (UG/L) (04037) <.01	CHLOR, WATER, DISS, REC (UG/L) (04024) <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)	THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670) .03
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13	DDE DISSOLV (UG/L) (34653) <.003 <.003	THION, DIS- SOLVED (UG/L) (39542) <.007 <.007	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.002	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) <.010 <.010	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037) <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024) <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.02 <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542) <.007 <.007 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006	ULATE WATER FILIRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.002 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) <.010 <.010 <.010	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037) <.01 <.01 E.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) <.02 <.02 <.02 <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.007 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 <.006 <.006	ULATE WATER FILIRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.002 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) <.010 <.010 <.010 <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 E.01 <.01 <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTED 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLITRD 0.7 U GF, REC (UG/L) (82685) <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425 .836 .354	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04 .06 E.04
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683) <.010 <.010 <.010 <.022 <.022 <.022 E.021n	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 E.01 <.01 <.01 <.01 E.01 E.01 E.01 E.01 E.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTED 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425 .836 .354 .382	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04 .06 E.04 E.07
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683) <.010 <.010 <.010 <.022 <.022 <.022 E.021n .066 .025 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTED 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425 .836 .354 .382 .453 .287	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04 .06 E.04 E.07 .06 <.02
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29 JUN 12 25	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FIIT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683) <.010 <.010 <.010 <.022 <.022 <.022 E.021n .066 .025 <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTED 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425 .836 .354 .382 .453 .287 .176 .141	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04 .06 E.04 E.07 .06 <.02 .04 .04 .06
OCT 11 NOV 05 DEC 04 JAN 09 FEB 13 MAR 13 26 APR 09 23 MAY 14 29 JUN 12 25 JUL 10 24	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FIIT 0.7 U GF, REC (UG/L) (82667) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010 <.010 <.022 <.022 <.022 E.021n .066 .025 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 E.01 <.01 <.01 <.01 <.01 <.0102	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTED 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.0	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035) .101 .185 .240 .425 .836 .354 .382 .453 .287 .176 .141 .127 r	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)  .03 .02 E.06 .04 .06 E.04 E.07 .06 <.02 .04 .04 .06r E.10

# 08057410 Trinity River below Dallas, TX--Continued (National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	GF, REC (UG/L)	GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	LATE WATER FLTRD 0.7 U GF, REC (UG/L)	0.7 U GF, REC (UG/L)
	(82665)	(82675)	(82681)	(82678)	(82661)
OCT					
11	<.034	<.02	<.005	<.002	<.009
NOV					
05	<.034	<.02	<.005	<.002	<.009
DEC 04	<.034	<.02	<.005	<.002	<.009
JAN	<.034	<.02	<.005	<.002	<.009
09	<.034	<.02	<.005	<.002	<.009
FEB					
13	<.034	<.02	<.005	<.002	<.009
MAR	. 024	<.02	<.005	. 000	. 000
13 26			<.005		
APR	1.051	1.02	1.003	1.002	1.005
09	<.034	<.02	<.005	<.002	<.009
23	<.034	<.02	<.005	<.002	E.007n
MAY	004	0.0	005	000	000
14 29	<.034 <.034		<.005 <.005		
JUN	<.034	<.02	<.005	<.002	<.009
12	<.034	<.02	<.005	<.002	<.009
25	r				r
JUL					
10	<.034		<.005		
24 AUG	<.034	<.02	<.005	<.002	<.009
06	< 034	< 02	<.005	< 002	< 009
20		<.02	<.005		
SEP					
12	<.034	<.02	<.005	<.002	<.009

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report:  $\ensuremath{n}$  -- Below the NDV

Null value qualifier codes used in this report:  $\ensuremath{\text{r}}$  -- Sample ruined in preparation

## 08057445 Prairie Creek at U.S. Highway 175, Dallas, TX

LOCATION.--Lat 32°42′17", long 96°40′11", Dallas County, Hydrologic Unit 12030105, on left bank at downstream side of the downstream access road bridge on U.S. Highway 175, 3.4 mi upstream from mouth, and 9.0 mi southeast of Dallas City Hall.

DRAINAGE AREA. -- 9.03 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1975 to Sept. 1980, Apr. 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 390.00 ft above NGVD of 1929. Satellite telemeter at station.

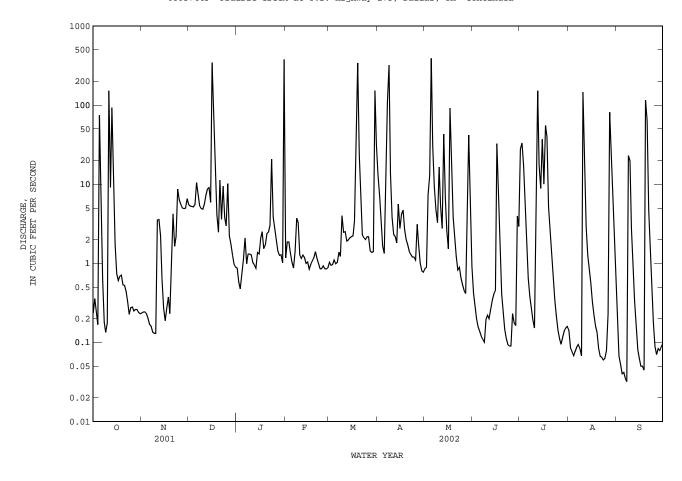
REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. No flow at times.

		DISCHARGE	FROM DCP			ECOND, WA LY MEAN V		OCTOBER 200	1 TO SE	PTEMBER 20	002	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.23 0.36 0.24 0.17	0.24	5.5 e5.3 e5.2 e5.1 e5.5	0.87 0.57 0.48 0.71 1.1	1.2 1.9 1.9 1.4					28 33 17 4.4 1.5	0.14 0.09 0.08 0.07 0.08	0.17 0.07 0.05 0.04 0.04
6 7 8 9 10	8.1 0.63 0.18 0.13 0.18	0.17 0.16 0.13 0.13	e11 e7.5 e5.4 e4.9 e4.8	2.1 0.99 1.3 1.3	0.87 1.4 3.7 3.3 1.3	1.0 1.4 1.2 4.0 2.5	5.6 e111 e320 e14 3.8	30 9.3 4.8 3.2 16	0.12 0.11 0.10 0.20 0.22	0.65 0.38 0.27 0.19 0.15	0.09 0.09 0.08 0.07 145	0.04 0.03 23 20 2.7
11 12 13 14 15	9.1 93 6.6 1.7	3.5 3.6 2.2 0.64 0.27	e5.6 e7.2 e8.6 e9.1 e5.9	1.0 0.96 0.86 1.4 1.3	1.2 1.3 1.2 0.99 1.0			5.4 2.7 43 6.6 2.6		1.7 151 17 8.8 37	13 2.9 1.3 0.85 0.57	0.94 0.32 0.15 0.08 0.06
								1.5 92 14 3.8 2.2				
								1.2 0.82 0.89 0.66 0.54				
26 27 28 29 30 31	0.28 0.25 0.26 0.26 0.24 0.23	e5.5 5.0 4.9 5.0 6.5	e10 2.2 1.7 1.3 0.98 0.89	2.1 1.4 1.3 1.3 1.0 e376	0.85 0.85 0.88 	2.2 1.4 1.4 1.4 152 32	e3.1 e1.7 e1.0 e0.80 e0.77	0.46 0.41 3.1 42 4.2 0.92	0.23 0.18 0.16 4.0 2.9	0.11 0.09 0.12 0.14 0.15 0.16	0.23 81 12 2.8 1.0 0.38	0.07 0.08 0.08 0.09 0.10
	352.21 11.36 151 0.13 699	64.34 2.145 8.7 0.13 128	546.07 17.62 345 0.89 1080	442.64 14.28 376 0.48 878	36.48 1.303 3.7 0.84 72	630.99 20.35 341 0.94 1250	524.47 17.48 320 0.77 1040	703.45 22.69 389 0.41 1400	51.38 1.713 32 0.09 102	416.72 13.44 151 0.09 827	263.07 8.486 145 0.06 522	235.27 7.842 116 0.03 467
STATIS							•	CER YEAR (WY	•			
MEAN MAX (WY) MIN (WY)	11.43 46.3 1995 0.000 1976	8.986 43.1 1995 0.33 1990	11.70 40.2 1999 0.42 1978	7.053 19.8 1990 0.12 1976	11.13 41.6 1997 0.34 1976	11.71 27.0 2001 1.28 1996	11.97 42.2 1990 0.66 1978	16.56 72.4 1989 0.64 1977	9.150 51.1 2000 0.32 1978	3.984 24.9 1994 0.000 1980	2.495 15.3 2001 0.000 1980	3.449 10.4 2001 0.003 2000
SUMMAR	Y STATIS	STICS	FOR	2001 CALEN	IDAR YEAF	3	FOR 2002	WATER YEAR		WATER YEA	ARS 1976 -	2002h
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PER 50 PER	MEAN T ANNUAL ANNUAL T DAILY DAILY SEVEN-I M PEAK 1	MEAN MEAN MEAN MEAN DAY MINIMU FLOW STAGE (AC-FT) CEEDS CEEDS	М	3705.44 10.15 345 0.09 0.12 7350 14 1.4 0.15	Dec 16 May 15 Jul 23	5 5 3	8460 14 1.	May 5 03 Sep 7 06 Sep 1 May 5 76 May 5		9.2 17.4 1.6 1150 0.0 5660 29.2 6710 11	May 17 00 Oct 1 00 Oct 1 May 17 21 May 17	1995 1978 1978 1989 1975 1975 1989

e Estimated

h See PERIOD OF RECORD paragraph.

08057445 Prairie Creek at U.S. Highway 175, Dallas, TX--Continued



## 08057448 Trinity River near Wilmer, TX

LOCATION.--Lat 32°37′03", long 96°37′19", Dallas County, Hydrologic Unit 12030105, on left bank at downstream side of bridge on Belt Line Road, 2.6 mi downstream from Prairie Creek, 4.4 mi northeast of Wilmer, 5.1 mi upstream from Tenmile Creek, and at mile 504.4.

DRAINAGE AREA.--6,387  $\min^2$ .

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1998 to Sept. 2002 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 345.95 ft above NGVD of 1929. Satellite telemeter at station.

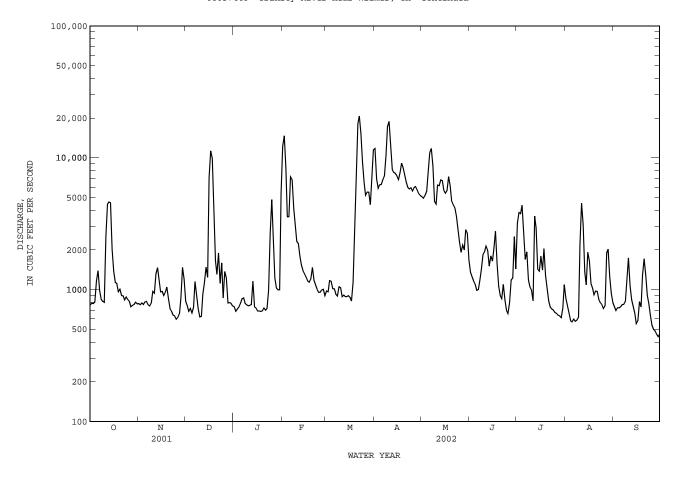
REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1998, at least 10% of contributing drainage area has been regulated. Several cities within the Dallas-Fort Worth metroplex divert water for municipal use and return it to the river as wastewater effluents above this station. Low flows are sustained by wastewater effluents.

		DISCHARGE	FROM DCP,	CUBIC FI		COND, WA Y MEAN V		OCTOBER 200	1 TO SE	PTEMBER 200	2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	763	784	814	741	12300	975	11800	5060	1350	3200	860	746
2	788	769	751	684	14700	962	6920	4930	1260	3860	751	693
3	784	794	684	708	8370	1170	5870	5190	1170	3770	662	729
4	807	770	718	736	3570	1160	6240	5580	1100	4380	580	728
5	1160	804	665	784	3580	1020	6280	7830	986	2600	569	742
6	1390	817	735	854	7190	1020	6810	10900	999	1690	597	769
7	983	769	1150	865	6850	918	7270	11800	1170	1940	574	773
8	844	752	906	789	4160	894	10500	8680	1430	1180	586	815
9	815	792	718	767	3230	1050	17200	4670	1850	1060	617	1220
10	802	971	619	754	2330	1040	18900	4470	1940	995	2200	1740
11	2510	937	627	760	2240	885	12500	6210	2140	822	4520	1080
12	4430	1320	925	768	1790	909	8160	6150	2000	3610	3110	837
13	4620	1470	1130	1160	1540	888	7760	6790	1510	2940	1360	742
14	4550	1190	1480	742	1390	884	7620	6710	1800	1430	1090	660
15	2020	962	1240	725	1320	900	7300	5690	1640	1380	1920	551
16	1380	969	7030	687	1240	874	6840	5390	2040	1800	1650	582
17	1130	903	11300	690	1160	820	7760	5630	2780	1410	1110	811
18	1110	958	9930	682	1140	1130	9090	7200	1570	2050	1020	738
19	963	1050	3610	690	1200	4170	8390	6100	1060	1270	913	1290
20	1000	857	1650	724	1480	10100	7390	4720	902	1010	976	1710
21	901	719	1310	699	1170	18200	6490	4420	855	816	969	1300
22	896	683	1890	720	1090	20800	5960	4180	1100	740	843	904
23	834	641	1120	989	1010	15300	5810	3610	838	714	797	775
24	880	633	1600	2680	953	9260	5940	2920	695	699	770	642
25	841	596	866	4820	956	6510	5590	2300	660	670	719	538
26 27 28 29 30 31	814 741 761 769 801 781	617 657 868 1470 1200	1370 1220 794 798 788 751	2460 1230 1030 998 999 5380	995 1010 900  	5190 5500 5490 4410 7360 11500	5960 6050 5710 5330 5160	1920 2170 2000 2860 2690 1680	796 1180 1220 2520 1430	659 639 632 614 724 1090	755 1900 2030 1250 934 796	500 486 458 440 462
TOTAL	41868	26722	59189	37315	88864	141289	238600	160450	41991	50394	37428	24461
MEAN	1351	890.7	1909	1204	3174	4558	7953	5176	1400	1626	1207	815.4
MAX	4620	1470	11300	5380	14700	20800	18900	11800	2780	4380	4520	1740
MIN	741	596	619	682	900	820	5160	1680	660	614	569	440
AC-FT	83050	53000	117400	74010	176300	280200	473300	318300	83290	99960	74240	48520
STATIST	CICS OF	MONTHLY ME	EAN DATA F	OR WATER	YEARS 199	9 - 2002	, BY WATE	ER YEAR (WY)				
MEAN	1514	1773	2470	1427	3001	4692	4118	3294	2393	1308	924.1	1105
MAX	2174	3029	4196	2096	6242	10710	7953	5176	5069	1626	1207	2083
(WY)	1999	2001	1999	2001	2001	2001	2002	2002	2000	2002	2002	2001
MIN	997	891	1535	1019	1176	1567	1434	1829	1085	783	581	593
(WY)	2000	2002	2000	2000	1999	2000	2000	2000	2001	2000	2000	2000
SUMMARY	STATI:	STICS	FOR	2001 CAL	ENDAR YEAR		FOR 2002	WATER YEAR		WATER YEAR	S 1999 -	- 2002
MAXIMUN MAXIMUN INSTANI	MEAN ANNUAL ANNUAL DAILY DAILY SEVEN-I M PEAK I PEAK CANEOUS RUNOFF CENT EXC	MEAN MEAN MEAN DAY MINIMUN FLOW STAGE LOW FLOW (AC-FT) CEEDS CEEDS	М	32500 596 649 2287000 8390 1290 741	Feb 17 Nov 25 Nov 21		948571 2599 20800 440 504 21800 27. 1881000 6820 1110 689	Mar 22 Sep 29 Sep 24 Mar 22 36 Mar 22		2330 3379 1480 e32500 440 504 b21800 27.36 321 1688000 6130 1030 660	Feb 1' Sep 29 Sep 20 Mar 20 Mar 20 Sep 30	9 2002 1 2002 2 2002 2 2002

e Estimated

b Maximum discharge for period of record occurred Feb. 17, 2001, discharge unknown.

08057448 Trinity River near Wilmer, TX--Continued



## 08057448 Trinity River near Wilmer, TX--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD. --

CHEMICAL DATA: Oct. 2000 to Sept. 2001. BIOCHEMICAL DATA: Oct. 2000 to Sept. 2001. PESTICIDE DATA: Oct. 2000 to Sept. 2001.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Oct. 1999 to Sept. 2002 (discontinued). pH: Oct. 1999 to Sept. 2002 (discontinued). WATER TEMPERATURE: Oct. 1999 to Sept. 2002 (discontinued). DISSOLVED OXYGEN: Oct. 1999 to Sept. 2002 (discontinued).

INSTRUMENTATION. -- Water-quality monitor since Oct. 1999.

REMARKS.--Records fair. Interruption in the record was caused by malfunctions of the instrument. Mean monthly and annual MARKS.—Records fair. Interruption in the record was caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD. --

CREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 842 microsiemens/cm, Aug. 24, 2000; minimum, 199 microsiemens/cm, May 19, 2000. pH: Maximum, 8.5 units, May 19, 2000; minimum, 6.3 units, Jan. 31, 2002.
WATER TEMPERATURE: Maximum, 32.1°C, July 24, 25, 2001; minimum, 7.8°C, Feb. 26, 2002.
DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Mar. 28, 2001, Feb. 6, 2002; minimum, 2.5 mg/L, Aug. 11, 2002.

EXTREMES FOR CURRENT YEAR . --

SPECIFIC CONDUCTANCE: Maximum, 796 microsiemens/cm, Mar. 18; minimum, 221 microsiemens/cm, Aug. 10. PH: Maximum, 8.3 units, on several days; minimum, 6.3 units, Jan. 31. WATER TEMPERATURE: Maximum, 32.0°C, July 25; minimum, 7.8°C, Feb. 26. DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Feb. 6; minimum, 2.5 mg/L, Aug. 11.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	ECEMBER			JANUARY	•
1 2 3 4 5	733 729 732 752 742	723 720 722 732 586	729 724 727 745 723	746 726 728 744 747	715 712 712 727 726	732 717 722 736 735	657 685 714 722 735	635 655 682 699 714	646 670 695 711 720	717 728 723 732 744	703 717 709 720 732	709 724 716 726 739
6 7 8 9 10	674 676 726 744 751	506 633 676 721 723	593 651 705 733 734	733 719 735 723 727	712 708 707 708 690	725 714 723 716 706	743 729 706 690 730	728 706 653 650 687	737 721 685 678 709	743 737 747 754 751	722 720 732 744 739	734 728 739 749 744
11 12 13 14 15	728 467 421 408	380 377 320 376	597 417 372 392	762 721 680 706 613	684 650 626 613 606	726 686 645 673 610	736 741 725 681 639	723 705 681 600 616	728 729 715 638 627	746 760 774 748 750	733 729 593 604 737	738 740 699 674 745
16 17 18 19 20	  	  	  	  	  	  	636 365 383 493 576	234 352 356 383 493	387 358 365 437 540	752 770 756 761 773	740 752 737 738 745	745 760 746 747 760
21 22 23 24 25		  	  	  		  	627 684 665 717 664	576 552 559 570 573	610 599 610 630 606	770 777 745 716 491	745 740 704 457 438	753 762 725 610 463
26 27 28 29 30 31	713 730 748 737 729	700 711 720 716 717	708 724 735 730 723	  	  	  	726 566 709 713 712 718	539 539 566 701 685 703	683 552 643 707 696 712	521 595 665 693 712 708	468 521 595 662 684 288	499 569 641 681 701 504
MONTH							743	234	630	777	288	696

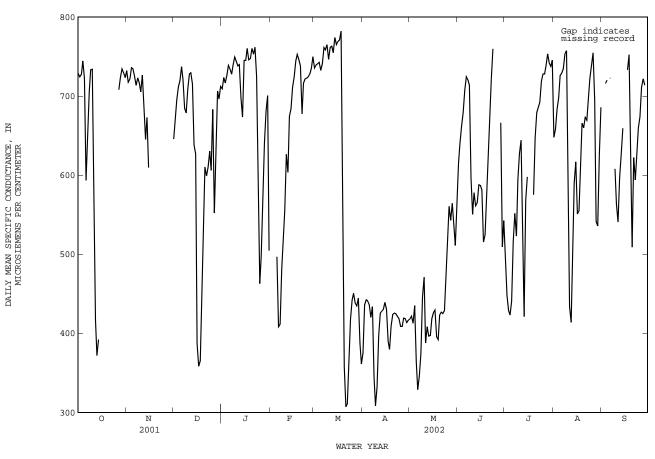
TRINITY RIVER BASIN

199

08057448 Trinity River near Wilmer, TX--Continued SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SPECIF	IC CONDUC	TANCE	FROM DCP,	In US/CM	@ 25C,	WAIER YEA	R OCTOBER	2001 10	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				743	730	735	396	359	375	421	416	418
2				746		739			436	424	419	422
3				761	724	741	456		442	425	387	413
4				752		743	455		441	451	417	435
5	557	427	497	746	722	733	455	424	436	448	271	364
6	427	397	408	765	718	741	436	391	420	335	314	329
7	445	396	411	767		761			434	361	334	346
8 9	509 532	445 506	481 517	766 776		758 765			345 308	404 487	361 404	375 446
10	603	530	555	778	734	747	364	303	333	509	384	471
11 12	659 641	583 585	626 604	772 774	746 757	762 763	420 441		396 426	418 419	349 388	388 408
13	684	641	674	771		755			428	406	379	396
14	704	671	684	777	771	774			430	407	385	397
15	719	704	712	774	759	765	447	432	439	425	407	418
16	734	719	725	777	764	769	435	426	430	431	424	426
17	753	734	744	776	764	771			390	437	406	429
18	762	737	753	796	750	782	397	361	380	413	376	429 396 392
19	755	730	746	790		598	421		410	410	373	392
20	780	668	738	430	330	357	427	421	424	430	410	423
21	701	664	677	331	291	307	427	423	426	431	422	427
22	724	701	716	335	292	311	429		425	430	422	425
23 24	736	705	722	396 432		365			422	439 486	424	425 428 472
25	727 726	721 721	723 724	451		418 442			418 409	525	439 486	508
26	739	725	728	455		451			409	588	525	560
27 28	743 759	724 743	735 750	449 440		439 435	428 422		419 419	596 584	515 529	543 564
29				451		444			414	582	476	564 539
30				456	327	387	421	414	417	533	499	511
31				376	354	361				593	533	566
MONTH				796	291	610	474	303	410	596	271	440
	MAY	MIN	MEAN	MAY	MIN	MEAN	MAV	MIN	MEAN	MAY	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
DAY		JUNE			JULY			AUGUST		MAX	SEPTEMB	ER
	MAX 627 653		MEAN 615 640	590 495	JULY 411 408	MEAN 491 448	687	AUGUST	MEAN 648 658			
DAY  1 2 3	627 653 670	JUNE 593 627 651	615 640 662	590 495 449	JULY 411 408 408	491 448 429	687 679 699	AUGUST 624 627 662	648 658 684	  725	SEPTEMB 704	ER   716
DAY  1 2 3 4	627 653 670 691	JUNE 593 627 651 663	615 640 662 679	590 495 449 478	JULY 411 408 408 384	491 448 429 423	687 679 699 713	AUGUST 624 627 662 688	648 658 684 698	  725 739	SEPTEMB 704 704	ER  716 720
DAY  1 2 3	627 653 670	JUNE 593 627 651	615 640 662	590 495 449	JULY 411 408 408 384	491 448 429	687 679 699 713	AUGUST 624 627 662 688	648 658 684	  725	SEPTEMB 704	ER   716
DAY  1 2 3 4 5	627 653 670 691 720	JUNE 593 627 651 663 690 718	615 640 662 679 707	590 495 449 478 482 571	JULY 411 408 408 384 401	491 448 429 423 441 516	687 679 699 713 732	AUGUST 624 627 662 688 713	648 658 684 698 726	 725 739 	SEPTEMB 704 704 668	ER 716 720 723
DAY  1 2 3 4 5	627 653 670 691 720 730 731	JUNE 593 627 651 663 690 718 716	615 640 662 679 707 725 721	590 495 449 478 482 571 585	JULY 411 408 408 384 401 482 511	491 448 429 423 441 516 552	687 679 699 713 732 736 741	AUGUST 624 627 662 688 713 718 722	648 658 684 698 726 729 735	 725 739  741	SEPTEMB 704 704 668	ER 716 720 723
DAY  1 2 3 4 5 6 7 8	627 653 670 691 720 730 731 740	JUNE 593 627 651 663 690 718 716 651	615 640 662 679 707 725 721 714	590 495 449 478 482 571 585 547	JULY 411 408 408 384 401 482 511 507	491 448 429 423 441 516 552 523	687 679 699 713 732 736 741 767	AUGUST 624 627 662 688 713 718 722 732	648 658 684 698 726 729 735 753	 725 739  741	SEPTEMB 704 704 668	 716 720  723
DAY  1 2 3 4 5	627 653 670 691 720 730 731	JUNE 593 627 651 663 690 718 716	615 640 662 679 707 725 721	590 495 449 478 482 571 585	JULY 411 408 408 384 401 482 511 507 547	491 448 429 423 441 516 552	687 679 699 713 732 736 741 767	AUGUST 624 627 662 688 713 718 722 732 751	648 658 684 698 726 729 735	 725 739  741	SEPTEMB 704 704 668	ER 716 720 723
DAY  1 2 3 4 5 6 7 8 9 10	627 653 670 691 720 730 731 740 651 559	JUNE 593 627 651 663 690 718 716 651 558 537	615 640 662 679 707 725 721 714 597 550	590 495 449 478 482 571 585 547 623 638	JULY 411 408 408 384 401 482 511 507 547 623	491 448 429 423 441 516 552 523 594 628	687 679 699 713 732 736 741 767 765 754	AUGUST 624 627 662 688 713 718 722 732 751 221	648 658 684 698 726 735 753 757 611	725 739  741  734 592	SEPTEMB 704 704 668 528 525	 716 720  723  608 564
DAY  1 2 3 4 5 6 7 8 9 10	627 653 670 691 720 730 731 740 651 559	JUNE 593 627 651 663 690 718 716 651 558 537	615 640 662 679 707 725 721 714 597 550	590 495 449 478 482 571 585 547 623 638	JULY 411 408 408 384 401 482 511 507 547 623	491 448 429 423 441 516 552 523 594 628	687 679 699 713 732 736 741 767 765 754	AUGUST 624 627 662 688 713 718 722 732 751 221	648 658 684 698 726 729 735 753 757 611	725 739  741  734 592	SEPTEMB 704 704 668 528 525	 716 720  723  608 564
DAY  1 2 3 4 5 6 7 8 9 10	627 653 670 691 720 730 731 740 651 559	JUNE 593 627 651 663 690 718 716 651 558 537	615 640 662 679 707 725 721 714 597 550	590 495 449 478 482 571 585 547 623 638	JULY 411 408 408 384 401 482 511 507 547 623 637 346	491 448 429 423 441 516 552 523 594 628 644	687 679 699 713 732 736 741 767 765 754	AUGUST 624 627 662 688 713 718 722 732 751 221 272 369	648 658 684 698 726 729 735 753 751 611	725 739  741  734 592 563 616	SEPTEMB 704 704 668 528 525 523 563	 716 720  723  608 564 541 597
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14	627 653 670 691 720 730 731 740 651 559 606 608 577 604	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 573	615 640 662 679 707 725 721 714 597 550 578 561 565 588	590 495 449 478 482 571 585 547 623 638 655 681 496 612	JULY 411 408 408 384 401 482 511 507 547 623 637 346	491 448 429 423 441 516 552 523 594 628 644 497 421 569	687 679 699 713 732 736 741 767 765 754 574 463 541 618	AUGUST 624 627 662 688 713 718 722 732 751 221	648 658 684 698 726 729 735 753 751 611	725 739  741  734 592	SEPTEMB 704 704 668 528 525 523 563	 716 720  723  608 564 541 597
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13	627 653 670 691 720 730 731 740 651 559 606 608 577	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543	615 640 662 679 707 725 721 714 597 550 578 561 565	590 495 449 478 482 571 585 547 623 638 655 681 496	JULY 411 408 408 408 384 401 482 511 507 547 623 637 346 355	491 448 429 423 441 516 552 523 594 628 644 497 421	687 679 699 713 732 736 741 767 765 754 574 463 541	AUGUST  624 627 662 688 713  718 722 732 751 221 272 369 463	648 658 684 698 726 729 735 753 757 611 434 414 510	725 739 741  734 592 563 616 651	SEPTEMB 704 704 668 528 525 523 563 611	 716 720  723  608 564 541 597 627
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	627 653 670 691 720 731 740 651 559 606 608 577 604 609	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 573 577	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587	590 495 449 478 482 571 585 547 623 638 655 681 496 612	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496	491 448 429 423 441 516 552 523 594 628 644 497 421 569	687 679 699 713 732 736 741 767 765 754 463 541 618 646	AUGUST  624 627 662 688 713  718 722 732 751 221 272 369 463 541 526	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617	725 739  741  734 592 563 616 651 686	SEPTEMB 704 704 668 528 525 523 563 611 649	 716 720  723  608 564 541 597 627 659
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14	627 653 670 691 720 730 731 740 651 559 606 608 577 604	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 573	615 640 662 679 707 725 721 714 597 550 578 561 565 588	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598	687 679 699 713 732 736 741 767 765 754 574 463 541 618	AUGUST  624 627 662 688 713 718 722 732 751 221 272 369 463 541 526	648 658 684 698 726 729 735 753 757 611 434 414 510	725 739  741  734 592 563 616 651 686	SEPTEMB 704 704 668 528 525 523 563 6611 649	 716 720  723  608 564 541 597 627 659
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 549 544	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 573 577 492 462 514	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642	AUGUST  624 627 662 688 713  718 722 732 751 221  272 369 463 541 526 507 521 600	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617 551 555 622	725 739  741  734 592 563 616 651 686  746 759	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742	716 720 723 608 564 541 597 627 659 733 752
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609	JUNE 593 627 651 663 690 718 716 651 558 537 537 537 537 5492 462 514 544	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 573	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598	687 679 699 713 732 736 741 767 765 754 574 463 541 618 646	AUGUST  624 627 662 688 713 718 722 732 751 221 272 369 463 541 526 507 521 600 633	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666	725 739  741  734 592 563 616 651 686  746 759 742	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481	
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 549 544	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 573 577 492 462 514	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642	AUGUST  624 627 662 688 713  718 722 732 751 221  272 369 463 541 526 507 521 600	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617 551 555 622	725 739  741  734 592 563 616 651 686  746 759	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742	716 720 723 608 564 541 597 627 659 733 752
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 549 549 602 651	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 602 651	615 640 662 679 707 725 721 714 714 597 550 578 561 565 588 587 515 525 573 624	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617	JULY 411 408 384 401 482 511 507 547 623 637 346 355 496 568 486 628	491 448 429 423 441 516 552 533 594 628 644 497 421 569 598  575 648	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642 709 690	AUGUST  624 627 662 688 713 718 722 751 221 272 369 463 541 526 507 521 600 633 648	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666 660	725 739  741  734 592 563 616 651 686  746 742 603	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430	FER  716 720 723 608 564 541 597 627 659 733 752 672 509
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	627 653 670 691 720 731 740 651 559 606 608 577 604 609 636 549 549 5402 651	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 544 602 651 699	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 573 624	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617   628 660 688 692	JULY  411 408 408 384 401  482 511 507 547 623  637 346 355 496 568  486 628  660 679	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598   57 648 679 685	687 679 699 713 732 736 741 767 765 754 574 463 541 618 646 587 600 642 709 690 680 680	AUGUST  624 627 662 688 713 718 722 732 751 221 272 369 463 541 526 507 521 600 633 648 664 651	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617 551 555 622 666 660	725 739  741  734 592 563 616 651 686  746 759 742 603	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 585	FER  716 720 723 608 564 541 597 627 659 733 752 672 509
DAY  1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	627 653 670 691 720 731 740 651 559 606 608 577 604 609 636 549 544 602 651	JUNE 593 627 651 663 690 718 716 651 558 537 539 543 577 492 462 514 544 602 651 699 747	615 640 662 679 707 725 721 714 714 559 550 578 561 565 587 581 515 525 573 624 680 722 760	590 495 449 478 482 571 585 547 623 638 655 661 617  628 660 688 660 688 692 708	JULY 411 408 408 384 401 482 511 507 623 637 346 355 496 568 486 628 660 679 682	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642 709 690 680 686 709	AUGUST  624 627 662 688 713  718 722 732 751 221  272 369 463 541 526 507 521 600 633 648 664 651 684	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617 551 555 622 666 660 673 673 674	725 739  741  734 592 563 616 651 686  746 759 742 603 642 609 654	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 585 609	FER  716 720 723 608 564 541 597 627 659 733 752 672 509 622 594 630
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	627 653 670 691 720 731 740 651 559 606 608 577 604 609 636 549 549 5402 651	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 544 602 651 699	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 573 624	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617   628 660 688 692	JULY  411 408 408 384 401  482 511 507 547 623  637 346 355 496 568  486 628  660 679	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598   57 648 679 685	687 679 699 713 732 736 741 767 765 754 574 463 541 618 646 587 600 642 709 690 680 680	AUGUST  624 627 662 688 713  718 722 732 751 221  272 369 463 541 526 507 521 600 633 648 664 651 684	648 658 684 698 726 729 735 753 757 611 434 414 510 590 617 551 555 622 666 660	725 739  741  734 592 563 616 651 686  746 759 742 603	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 585	FER  716 720 723 608 564 541 597 627 659 733 752 672 509
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	627 653 670 691 720 731 740 651 559 606 608 577 604 609 544 609 544 609	JUNE 593 627 651 663 690 718 716 651 558 537 539 543 577 492 462 514 544 602 651 699 747	615 640 662 679 707 725 721 714 714 7550 578 561 565 588 587 581 515 525 573 624 680 722 760	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617  628 660 688 692 708 726 737	JULY  411 408 408 384 401  482 511 507 623  637 346 355 496 568 486 628 660 679 682 708 721	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598  575 648 672 719 728	687 679 699 713 732 736 741 767 765 754 463 541 618 646 709 690 680 732 745	AUGUST  624 627 662 688 713  718 722 732 751 221  272 369 463 541 526 507 521 600 633 648 664 651 684 709 730	648 658 684 698 726 729 735 757 611 434 414 510 590 617 555 622 666 660 673 670 694 723 738	725 739  741  734 592 563 616 651 686 759 742 603 642 609 654 672 700	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 585 609 649 663	ER 716 720 723 608 564 541 597 627 659 733 752 672 509 622 594 630 660 674
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 549 544 602 651	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 602 651 699 747	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 525 573 624	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617    628 660 688 692 708 737	JULY 411 408 384 401 482 511 507 547 623 637 346 355 496 568 486 628 660 679 682 708 721	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598  575 648 679 685 692 728	687 679 699 713 732 736 741 765 754 574 463 541 618 646 587 600 642 709 690 680 686 709 732 745	AUGUST  624 627 662 688 713 718 722 751 221 272 369 463 541 526 507 521 600 633 648 664 651 684 709 730 743	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666 660 673 670 697 723 738	725 739  741  734 592 563 616 651 686  746 742 603 642 609 654 672 700	SEPTEMB 704 704 528 525 523 563 611 649 717 742 481 430 590 585 609 649 663	ER
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	627 653 670 691 720 731 740 651 559 606 608 577 604 609 636 549 544 609 651 699 747 765 	JUNE 593 627 651 663 690 718 716 651 558 537 539 543 577 492 462 514 544 602 651 699 747 611	615 640 662 679 707 725 721 714 714 7550 578 561 565 588 587 515 525 573 624 680 722 760 	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617  628 660 688 692 708 726 737	JULY  411 408 408 384 401  482 511 507 623  637 346 355 496 568  486 628 660 679 682 708 721 722 731 741	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598   575 648 679 685 692 719 728 728 739	687 679 699 713 732 736 741 765 754 463 541 618 646 587 600 642 709 690 680 686 709 732 745	AUGUST  624 627 662 688 713 718 722 732 751 221  272 369 463 541 526  507 521 600 633 648 664 651 684 709 730 743 454	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666 660 673 670 694 723 738 755 695 595	725 739  741  734 592 563 616 651 686 759 742 603 642 609 654 672 700	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 689 663 700 712 706	ER 716 720 723 608 564 541 597 627 659 733 752 672 509 622 594 630 660 674 711 722 714
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 544 602 651 699 747 765  728 732	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 602 651 699 747 611 396	615 640 662 679 707 725 721 714 714 597 550 578 561 565 588 587 581 515 525 573 624 680 722 760 	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617   628 660 688 692 708 737 732 744 764 756	JULY 411 408 384 401 482 511 507 547 623 637 346 355 496 568 486 628 660 679 682 708 721 722 731 741 728	491 448 429 423 441 516 552 533 594 628 644 497 421 569 598  575 648 679 685 692 719 728 739 754 742	687 679 699 713 732 736 741 767 765 754 574 463 541 618 646 587 600 642 709 690 680 686 709 732 745	AUGUST  624 627 688 713 718 722 751 221 272 369 463 541 526 507 521 600 633 648 664 651 684 709 730 743 454 557	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666 660 673 670 697 695 738 755 695 753 753	725 739 741 734 592 563 616 651 686 746 749 759 742 603 642 609 654 672 700	SEPTEMB 704 704 528 525 523 563 611 649 717 742 481 430 590 585 609 649 663 700 712 700 712 700 712 700 700 712 700 700 712 700 700 712 700 700 700 700 700 700 700 700 700 70	ER
DAY  1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 549 549 544 747 765 	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 544 602 651 699 747 611 396 483	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 525 573 624 680 722 760  666 509 543	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617    8660 688 692 708 727 737 732 744 756 748	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598  -575 648 679 685 692 719 728 739 754 742 742 743 744	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642 709 690 680 686 709 732 745 765 762 582 888 654	AUGUST  624 627 662 688 713 718 722 732 751 221 272 369 463 541 526 507 521 600 633 648 664 651 684 709 730 743 454 454 507 588	648 658 684 698 726 729 735 757 611 434 414 510 617 551 555 626 660 673 670 694 723 738 755 757 695 542 542 542 542	725 739  741  734 592 563 616 651 686 759 742 603 642 609 654 672 700	SEPTEMB 704 704 668 528 525 523 563 611 649 717 742 481 430 590 689 663 700 712 706	ER
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 544 602 651 699 747 765 	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 602 651 699 747 611 396	615 640 662 679 707 725 721 714 714 597 550 578 561 565 588 587 581 515 525 573 624 680 722 760 	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617  628 660 688 692 708 737 732 744 764 756 748 761	JULY 411 408 384 401 482 511 507 547 623 637 346 355 496 568 486 628 660 679 682 708 721 722 731 741 728 728 687	491 448 429 423 441 516 552 533 594 628 644 497 421 569 598  575 648 679 685 692 719 728 739 754 742 738 745	687 679 699 713 732 736 741 765 754 574 463 587 600 642 709 690 680 686 709 732 745 765 762 582 588 654 712	AUGUST  624 627 668 713 718 722 751 221 272 369 463 541 526 507 521 600 633 648 664 651 684 651 684 709 730 743 454 507 588 654	648 658 684 698 726 729 735 757 611 434 414 510 590 617 551 555 622 666 660 673 670 697 723 738 755 695 542 542 542 542 666 666	725 739  741  734 592 563 616 651 686  746 759 742 603 642 609 654 672 700	SEPTEMB	ER
DAY  1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	627 653 670 691 720 730 731 740 651 559 606 608 577 604 609 636 549 549 544 747 765 	JUNE 593 627 651 663 690 718 716 651 558 537 537 539 543 577 492 462 514 544 602 651 699 747 611 396 483	615 640 662 679 707 725 721 714 597 550 578 561 565 588 587 515 525 525 573 624 680 722 760  666 509 543	590 495 449 478 482 571 585 547 623 638 655 681 496 612 617    8660 688 692 708 727 737 732 744 756 748	JULY 411 408 408 384 401 482 511 507 547 623 637 346 355 496 568	491 448 429 423 441 516 552 523 594 628 644 497 421 569 598  -575 648 679 685 692 719 728 739 754 742 742 743 744	687 679 699 713 732 736 741 767 765 754 463 541 618 646 587 600 642 709 690 680 686 709 732 745 765 762 582 888 654	AUGUST  624 627 668 713 718 722 751 221 272 369 463 541 526 507 521 600 633 648 664 651 684 651 684 709 730 743 454 507 588 654	648 658 684 698 726 729 735 757 611 434 414 510 617 551 555 626 660 673 670 694 723 738 755 757 695 542 542 542 542	725 739  741  734 592 563 616 651 686  746 759 742 603 642 609 654 672 700	SEPTEMB	ER

08057448 Trinity River near Wilmer, TX--Continued



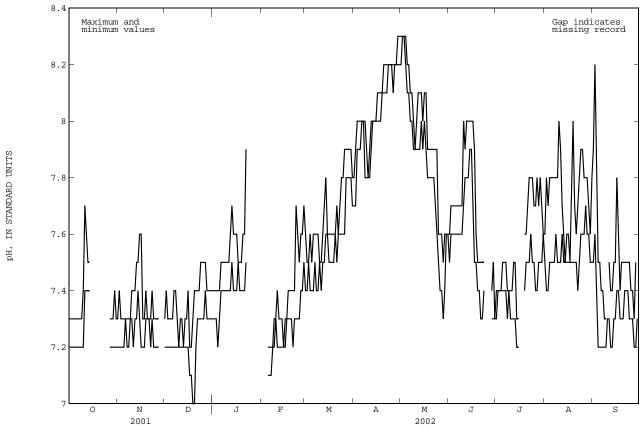
PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVEM	IBER	DECEM	IBER	JANU	JARY	FEBRU	JARY	MAF	RCH
1 2 3 4 5	7.3 7.3 7.3 7.3 7.3	7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3	7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3	7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.2 7.3	   7.2	   7.1	7.6 7.5 7.5 7.6 7.5	7.4 7.4 7.5 7.4 7.4
6 7 8 9 10	7.3 7.3 7.3 7.3 7.4	7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.3 7.4	7.3 7.2 7.2 7.3 7.3	7.3 7.4 7.4 7.3 7.2	7.2 7.2 7.2 7.2 7.2	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.4	7.2 7.2 7.2 7.3 7.3	7.1 7.1 7.2 7.2 7.3	7.6 7.6 7.6 7.6 7.5	7.4 7.5 7.4 7.4 7.5
11 12 13 14 15	7.7 7.6 7.5 7.5	7.4 7.4 7.4 7.4	7.4 7.4 7.5 7.5 7.6	7.2 7.3 7.3 7.4 7.3	7.3 7.3 7.2 7.3 7.3	7.2 7.2 7.2 7.2 7.2	7.5 7.6 7.7 7.6 7.6	7.4 7.4 7.5 7.4 7.4	7.4 7.3 7.3 7.3 7.2	7.2 7.2 7.2 7.2 7.2	7.5 7.6 7.7 7.8 7.6	7.4 7.5 7.5 7.6 7.6
16 17 18 19 20	  	  	7.6 7.3 7.3 7.4 7.3	7.2 7.2 7.2 7.3 7.3	7.4 7.2 7.2 7.3 7.4	7.2 7.1 7.1 7.0 7.0	7.6 7.5 7.5 7.5 7.6	7.4 7.5 7.4 7.4	7.3 7.3 7.4 7.4 7.4	7.2 7.3 7.3 7.3 7.3	7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.5 7.5 7.6
21 22 23 24 25	  	  	7.3 7.3 7.4 7.3 7.3	7.3 7.2 7.3 7.2 7.2	7.4 7.4 7.4 7.5 7.5	7.2 7.3 7.3 7.3 7.3	7.6 7.9 	7.4 7.5 	7.4 7.4 7.7 7.6 7.5	7.2 7.3 7.3 7.3 7.3	7.7 7.6 7.7 7.8 7.8	7.5 7.6 7.6 7.6 7.6
26 27 28 29 30 31	7.3 7.3 7.3 7.4 7.3	7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.3 	7.2 7.2  	7.5 7.5 7.4 7.4 7.4 7.4	7.3 7.4 7.3 7.3 7.3 7.3	   	  	7.6 7.6 7.7 	7.4 7.4 7.5 	7.9 7.9 7.9 7.9 7.9 7.8	7.6 7.8 7.8 7.8 7.8 7.7
MONTH					7.5	7.0					7.9	7.4

08057448 Trinity River near Wilmer, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	API	RIL	MA	Y	JUN	ΙE	JUL	Ϋ́	AUGU	JST	SEPTE	MBER
1 2 3 4 5	7.8 7.9 8.0 8.0	7.7 7.7 7.9 7.9 7.9	8.3 8.3 8.3 8.3	8.2 8.3 8.3 8.2 8.1	7.6 7.7 7.7 7.7 7.7	7.5 7.6 7.6 7.6 7.6	7.4 7.4 7.4 7.4 7.5	7.3 7.4 7.4 7.4 7.4	7.6 7.8 7.7 7.8 7.8	7.5 7.4 7.4 7.5 7.5	7.9 8.2 7.7 7.5 7.5	7.5 7.6 7.4 7.2 7.2
6 7 8 9 10	8.0 8.0 8.0 7.9 7.8	8.0 8.0 7.8 7.8 7.8	8.2 8.1 8.1 8.0 7.9	8.1 8.0 8.0 7.9 7.9	7.7 7.7 7.7 7.7 8.0	7.6 7.6 7.6 7.6 7.7	7.5 7.5 7.4 7.4 7.4	7.4 7.4 7.3 7.4 7.3	7.8 7.8 7.8 7.8 8.0	7.5 7.5 7.6 7.5 7.5	7.4 7.4 7.3 7.3	7.2 7.2 7.2 7.2 7.3
11 12 13 14 15	7.9 8.0 8.0 8.0	7.8 7.9 8.0 8.0	8.0 8.1 8.1 8.1 8.0	7.9 7.9 7.9 8.0 7.9	7.9 8.0 8.0 8.0	7.8 7.8 7.8 7.9	7.4 7.5 7.5 7.3 7.3	7.3 7.3 7.3 7.2 7.2	7.9 7.7 7.6 7.5 7.6	7.5 7.6 7.5 7.5 7.5	7.5 7.4 7.4 7.5 7.5	7.3 7.2 7.2 7.3 7.3
16 17 18 19 20	8.1 8.1 8.1 8.1 8.2	8.0 8.0 8.0 8.1 8.1	8.1 8.1 7.9 7.9	8.0 7.9 7.8 7.8 7.8	8.0 7.9 7.6 7.5 7.5	7.7 7.5 7.5 7.4 7.4	  7.6 7.6	  7.4 7.5	7.6 7.5 7.7 8.0 7.7	7.5 7.5 7.5 7.5 7.5	7.8 7.6 7.4 7.5 7.5	7.4 7.4 7.3 7.3 7.3
21 22 23 24 25	8.2 8.2 8.2 8.2 8.2	8.1 8.2 8.2 8.2	7.9 7.9 7.9 7.9	7.8 7.8 7.7 7.6 7.5	7.5 7.5 7.5 	7.3 7.3 7.4 	7.7 7.8 7.8 7.8 7.7	7.5 7.5 7.6 7.5 7.5	7.6 7.7 7.8 7.9 7.9	7.5 7.4 7.5 7.6 7.6	7.5 7.5 7.5 7.5 7.4	7.4 7.4 7.4 7.3 7.3
26 27 28 29 30 31	8.2 8.2 8.2 8.3 8.3	8.1 8.2 8.2 8.2 8.2	7.6 7.6 7.5 7.6 7.6	7.4 7.4 7.3 7.4 7.6 7.6	 7.4 7.5 7.3	7.3 7.3 7.3	7.7 7.8 7.7 7.8 7.7 7.6	7.4 7.4 7.5 7.5 7.5	7.8 7.8 7.7 7.6 7.8	7.6 7.7 7.6 7.6 7.5	7.4 7.3 7.5 	7.3 7.2 7.2 7.3
MONTH	8.3	7.7	8.3	7.3					8.0	7.4		



WATER YEAR

08057448 Trinity River near Wilmer, TX--Continued

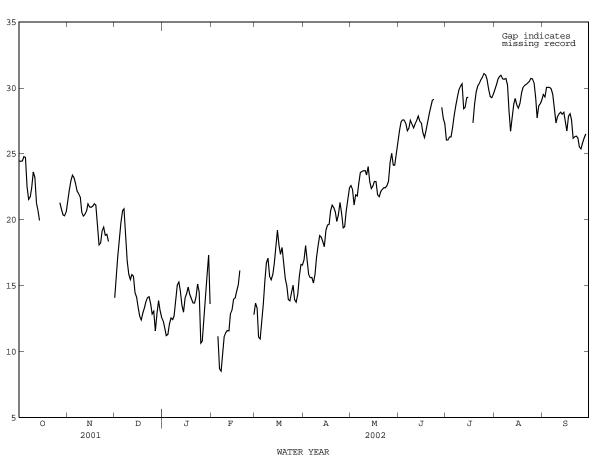
WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	WATE	R TEMPERA	TURE FROM	DCP, in	(DEGREES	C), WATER	YEAR	OCTOBER 2	001 TO	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER			DECEMBER			JANUARY	
1 2 3 4 5	25.0 25.0 25.0 25.3 25.2	23.8 23.8 23.8 24.2 23.3	24.5 24.4 24.5 24.8 24.7	21.9 22.9 23.5 23.7 23.6	20.8 21.7 22.3 23.0 22.8	21.4 22.2 23.0 23.4 23.2	14.9 16.9 18.1 19.5 20.5	14.5 16.6 18.1	14.1 15.6 17.2 18.6 19.8	12.7 12.4 11.8 12.0 12.6	11.4 10.8 10.7	12.3 11.8 11.2 11.3 12.1
6 7 8 9 10	23.4 22.1 22.3 23.2 24.4	22.0 21.0 21.2 21.9 23.1	22.5 21.6 21.7 22.4 23.6	23.2 22.6 22.4 22.2 21.3	22.3 21.7 21.4 21.3 20.3	22.8 22.2 22.0 21.7 20.6	21.1 21.0 20.2 17.9 16.3	20.2 17.9 16.3	20.7 20.8 19.0 16.9 15.9	12.9 12.9 13.4 14.7 15.7	11.8 12.1 13.0	12.6 12.4 12.7 13.8 15.0
11 12 13 14 15	24.5 21.8 21.4 20.2	21.4 21.0 20.1 19.7	23.2 21.3 20.7 20.0	20.5 20.6 21.0 21.4 21.2	20.0 20.2 20.3 21.0 20.7	20.3 20.4 20.7 21.2 21.0	15.9 16.1 15.9 15.1 14.4	15.6 15.1 14.1	15.5 15.8 15.7 14.5 14.1	15.7 15.3 14.7 14.2 14.5	14.2 12.1	15.3 14.6 13.5 13.0 14.1
16 17 18 19 20		  		21.2 21.6 21.7 21.6 20.4	20.8 20.6 20.6 20.4 18.8	20.9 21.0 21.2 21.1 19.5	14.5 12.9 12.7 13.2 13.7	12.6 12.2 12.7	13.4 12.7 12.4 12.9 13.3	15.1 15.1 14.9 14.3 14.1	14.7 14.1 13.7	14.4 14.9 14.3 14.0 13.7
21 22 23 24 25		  	  	18.8 18.8 19.9 19.9	17.5 17.6 18.6 19.0 18.3	18.1 18.2 19.1 19.4 18.8	14.1 15.0 14.7 14.6 13.3	13.5 13.6 12.7	13.8 14.1 14.2 13.6 12.9	14.4 14.7 15.7 15.7	13.8 14.5 11.4	13.7 14.1 15.1 14.5 10.6
26 27 28 29 30 31	21.8 21.2 20.8 20.8 21.1	20.8 20.3 20.0 19.6 20.0	21.3 20.8 20.4 20.3 20.6	19.4 19.4  	18.4 17.2  	18.9 18.4 	13.6 12.0 14.2 14.2 13.9 13.0	11.3 11.9 13.5 12.8	13.1 11.6 12.9 13.9 13.2 12.6	11.1 12.8 14.7 16.6 17.8 17.4	10.9 12.8 14.7 16.6	10.8 12.1 13.7 15.8 17.3 13.6
MONTH							21.1	11.3	15.0	17.8	10.3	13.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	   11.9	   9.4	   11.2	14.2 14.0 12.1 11.8 13.3	13.1 12.1 10.4 10.0 11.6	13.7 13.3 11.1 11.0 12.4	18.0 18.2 18.1 16.2 15.8	17.9 16.0 15.6	17.0 18.0 16.8 15.9	23.0 22.8 21.8 22.5 22.5	21.8	22.6 22.3 21.1 21.9 21.8
6 7 8 9 10	9.4 9.3 10.5 11.6 11.6	8.4 8.1 9.3 10.5 11.3	8.7 8.5 9.8 11.1 11.4	14.8 16.3 17.4 17.4 16.7	12.6 14.7 16.2 16.7 15.0	13.7 15.5 16.7 17.1 15.7	15.8 15.4 16.9 17.8 18.9	15.1 15.1 16.6	15.6 15.2 15.9 17.1 18.0	23.4 24.0 24.0 24.0 24.0	23.4 23.5 23.6	22.7 23.6 23.7 23.7 23.7
11 12 13 14 15	12.5 12.2 13.3 13.8 14.4	11.1 11.1 12.1 12.7 13.6	11.6 11.6 12.9 13.2 14.0	15.7 16.5 17.6 19.0 19.6	15.2 15.2 15.7 17.0 18.9	15.5 15.8 16.7 18.0 19.2	19.2 19.1 18.8 18.5 19.7	18.3 18.0 17.7	18.8 18.7 18.4 18.0 19.2	24.2 24.4 23.7 22.6 22.8	23.7	23.4 24.0 22.9 22.4 22.5
16 17 18 19 20	14.5 15.2 15.5 17.0	13.6 14.0 14.6 15.2	14.1 14.6 15.0 16.2	18.9 17.8 18.3 18.2 15.9	17.5 17.0 17.7 15.7	18.0 17.4 17.9 16.7 15.5	19.7 20.4 21.3 21.3 21.0	18.9 20.3 21.0	19.6 19.6 20.7 21.1 20.9	23.1 23.1 22.4 22.1 22.5	22.4	22.9 22.9 21.9 21.7 22.1
21 22 23 24 25		  		15.5 14.7 14.6 15.1 15.3	14.4 13.5 13.3 14.2 14.5	15.0 14.0 13.9 14.5 15.0	21.0 20.2 20.9 21.8 21.6	19.5	20.6 19.9 20.4 21.3 20.5	22.7 22.7 22.7 22.8 23.7	21.9 22.1 22.1 22.4 22.4	22.3 22.4 22.4 22.6 22.9
26 27 28 29 30 31	13.4 	12.1 	12.8 	14.5 14.0 15.1 16.4 17.0 17.0	13.7 13.4 14.0 15.1 16.3 16.3	14.0 13.8 14.4 15.7 16.6 16.6	19.9 20.0 21.5 22.1 22.8	19.1 20.0 21.1	19.4 19.5 20.7 21.6 22.4	25.6 25.4 24.6 25.0 25.6 26.7	23.4 24.6 23.8 23.5 24.6 25.3	24.3 25.1 24.1 24.2 25.1 25.9
MONTH				19.6	10.0	15.3	22.8		18.9	26.7	20.7	23.1

## 08057448 Trinity River near Wilmer, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1 2 3 4 5	27.7 27.9 28.0 28.0 27.9	26.0 26.6 27.0 27.0 26.9	26.8 27.4 27.6 27.6 27.3	27.0 26.2 26.6 26.4 27.7	25.3 26.0 26.0 26.1 26.3	26.1 26.1 26.3 26.3 27.0	30.5 31.0 31.6 31.7 31.7	29.1 29.5 29.8 30.0 30.1	29.9 30.2 30.7 30.9 31.0	30.3 30.4 30.7 30.7 30.7	28.7 28.4 29.2 29.3 29.3	29.5 29.3 30.1 30.1 30.0
6 7 8 9 10	27.1 27.8 28.0 27.8 27.5	26.3 26.1 27.2 26.9 26.5	26.8 26.9 27.6 27.3 27.0	28.9 29.4 29.9 30.5 30.7	27.1 28.0 28.8 29.2 29.5	28.0 28.7 29.3 29.9 30.1	31.3 31.5 31.4 30.9 30.4	29.9 29.7 30.1 29.5 24.3	30.7 30.7 30.7 30.2 28.3	30.4 30.0 29.2 28.0 28.4	29.3 29.1 28.0 26.4 27.4	29.9 29.5 28.5 27.4 27.8
11 12 13 14 15	27.8 28.0 28.5 28.0 27.9	26.9 27.1 27.4 27.1 26.7	27.3 27.5 27.9 27.5 27.3	31.0 30.5 29.1 30.0 29.8	29.6 27.1 27.5 28.7 28.8	30.3 28.4 28.5 29.3 29.3	27.8 28.6 29.5 29.5 29.1	24.8 27.1 28.2 28.9 28.4	26.7 27.8 28.8 29.2 28.7	28.6 28.6 28.4 28.7 28.6	27.6 27.8 27.5 27.6 26.0	28.0 28.2 28.0 28.2 27.5
16 17 18 19 20	27.5 26.8 27.7 28.1 28.8	26.1 25.7 26.1 26.7 27.5	26.6 26.2 26.8 27.4 28.1	28.3 29.6 30.4	26.1 27.9 29.1	27.4 28.8 29.7	29.1 29.5 30.5 30.7 30.8	28.0 28.3 29.0 29.4 29.6	28.5 28.9 29.6 30.0 30.2	28.0 28.4 28.6 28.2 26.9	24.5 27.4 27.6 26.5 25.3	26.7 27.9 28.0 27.6 26.2
21 22 23 24 25	29.4 29.8 29.9 	27.7 28.4 28.4 	28.6 29.1 29.1 	30.9 31.1 31.6 31.7 32.0	29.4 29.5 29.7 29.9 30.3	30.1 30.3 30.6 30.8 31.1	30.8 31.1 31.2 31.5 31.3	29.7 29.7 29.7 29.9 30.0	30.3 30.4 30.5 30.7 30.7	26.7 26.9 26.7 26.1 26.1	25.9 25.9 25.8 25.0 24.6	26.3 26.4 26.2 25.5 25.4
26 27 28 29 30 31	29.2 29.0 27.4	27.8 27.0 27.0	28.5 27.7 27.3	31.7 31.4 30.6 29.8 29.9 30.0	30.2 29.8 29.0 28.8 28.6 28.9	31.0 30.6 29.9 29.4 29.3 29.5	31.1 30.7 29.0 29.1 29.3 29.9	29.6 26.3 26.3 28.2 28.2 28.4	30.4 29.3 27.7 28.6 28.8 29.1	26.5 26.9 27.2 	25.1 25.4 25.7 	25.8 26.2 26.5 
MONTH							31.7	24.3	29.6			



DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

08057448 Trinity River near Wilmer, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	U	XYGEN DI	SSOLVED	FROM DCP,	III (MG/I	L), WAIER	YEAR OCTOR	SER ZUUI	IO SEPI	EMBER 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		0.0000000					-	CEMPER			T33#13 D11	
		OCTOBER		Ŋ	OVEMBER		DE	CEMBER			JANUARY	
1		6.2	6.4	7.4		7.1	8.7	8.1	8.4	9.6	9.3	9.4
2	6.5 6.3	6.1 5.5	6.4 6.0	7.2 7.3	6.8 6.8	7.0 7.0	8.3 7.9	7.7 7.4	8.1 7.6	9.8 10.2	9.4 9.5	9.6 9.9
4	6.0	5.0	5.5	7.4	6.7	7.0	7.5	7.1	7.3	10.2	9.7	10.0
5	6.4	5.4	6.0	7.3	6.6	6.9	7.2	6.8	7.0	9.8	9.3	9.6
6	5.9	3.4	5.2	7.5	7.0	7.2	6.9	6.7	6.8	9.6	9.2	9.4
7	6.7	5.9	6.4	7.4	7.1	7.2	6.7	6.0	6.5	9.6	9.2	9.4
8 9	6.8	6.6	6.7	7.4 7.4	7.1	7.2	7.2	5.8	6.6	9.5 9.4	8.8	9.2
10	7.2 7.1	6.4 6.2	6.8 6.7	7.4	7.1 7.3	7.2 7.4	7.7 7.9	7.1 7.6	7.5 7.7	9.4	8.8 8.7	9.0 9.0
						- 4				0 1	0.4	0.0
11 12	6.8 6.1	5.3 5.4	6.2 5.9	7.5 7.4	7.2 6.8	7.4 7.2	8.0 7.8	7.6 7.0	7.8 7.5	9.1 9.4	8.4 8.7	8.8 9.1
13	6.5	5.4	6.0	7.5	7.2	7.4	7.6	7.0	7.3	10.0	8.7	9.4
14 15	6.4	5.8	6.1	7.6	7.3	7.5	7.9 8.2	7.1 7.8	7.6 8.0	9.8 9.6	8.8 8.7	9.4 9.1
13							0.2	7.0	0.0	5.0	0.7	J. 1
16							9.4	8.0	8.8	9.2	8.8	8.9
17 18							8.7 8.3	8.3 8.0	8.5 8.2	9.0 9.0	8.7 8.6	8.9 8.8
19							8.6	8.1	8.3	9.3	8.9	9.1
20							8.8	8.6	8.8	9.8	8.9	9.4
21							8.9	8.6	8.8	9.7	9.1	9.5
22							9.2	8.3	8.8			
23 24							9.1 9.6	8.5 8.4	8.8 9.0	11.2	9.2	10.2
25							9.5	9.2	9.4	11.7	11.1	11.4
26							9.9	8.9	9.1	11 6	11 1	11.3
27	7.3	7.0	7.2				10.2	9.9	10.0	11.6 11.5	$\frac{11.1}{11.1}$	11.3
28	7.4	7.0	7.2				9.9	8.8	9.3	11.1	9.8	10.9
29 30	7.3 7.4	7.1 7.1	7.2 7.2				8.9 9.2	8.7 8.9	8.8 9.1	10.7 10.3	9.8 9.7	10.5 9.9
31	7.5	7.0	7.2				9.4	9.1	9.2	11.3	9.0	10.4
MONTHE							10.0	F 0	0 0			
MONTH							10.2	5.8	8.2			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY		MAX	MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
					MARCH			APRIL			MAY	
1 2		FEBRUARY		MAX 11.2 11.5		MEAN 10.8 11.0			MEAN 6.3 6.4	MAX 7.8 7.9		7.5 7.7
1 2 3		FEBRUARY  		11.2 11.5 12.1	MARCH 10.5 10.5 11.2	10.8 11.0 11.7	6.7 7.7 9.9	APRIL 6.0 5.9 7.7	6.3 6.4 8.3	7.8 7.9 8.2	MAY 7.3 7.5 7.7	7.5 7.7 7.9
1 2 3 4	  	FEBRUARY   	  	11.2 11.5 12.1 12.1	MARCH 10.5 10.5 11.2 11.7	10.8 11.0 11.7 11.9	6.7 7.7 9.9 8.8	APRIL 6.0 5.9 7.7 8.0	6.3 6.4 8.3 8.4	7.8 7.9 8.2 8.1	MAY 7.3 7.5 7.7 7.8	7.5 7.7 7.9 7.9
1 2 3 4 5	   11.8	FEBRUARY 10.6	   11.0	11.2 11.5 12.1 12.1 11.8	MARCH 10.5 10.5 11.2 11.7 11.1	10.8 11.0 11.7 11.9 11.4	6.7 7.7 9.9 8.8 8.5	APRIL 6.0 5.9 7.7 8.0 8.1	6.3 6.4 8.3 8.4 8.2	7.8 7.9 8.2 8.1 8.0	MAY 7.3 7.5 7.7 7.8 6.3	7.5 7.7 7.9 7.9 7.3
1 2 3 4 5	   11.8	FEBRUARY 10.6 11.8	   11.0	11.2 11.5 12.1 12.1 11.8	MARCH  10.5 10.5 11.2 11.7 11.1	10.8 11.0 11.7 11.9 11.4	6.7 7.7 9.9 8.8 8.5	APRIL 6.0 5.9 7.7 8.0 8.1 7.7	6.3 6.4 8.3 8.4 8.2	7.8 7.9 8.2 8.1 8.0	MAY 7.3 7.5 7.7 7.8 6.3	7.5 7.7 7.9 7.9 7.3
1 2 3 4 5	  11.8 12.6 12.5 12.0	FEBRUARY 10.6 11.8 12.0 11.5	  11.0 12.2 12.3 11.8	11.2 11.5 12.1 12.1 11.8 11.6 11.4	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6	7.5 7.7 7.9 7.9 7.3 5.7 5.5
1 2 3 4 5 6 7 8 9	  11.8 12.6 12.5 12.0 11.6	FEBRUARY 10.6 11.8 12.0 11.5 11.0	  11.0 12.2 12.3 11.8 11.2	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 5.1	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6 5.8	7.5 7.7 7.9 7.9 7.3 5.7 5.5 6.0
1 2 3 4 5	  11.8 12.6 12.5 12.0	FEBRUARY 10.6 11.8 12.0 11.5	  11.0 12.2 12.3 11.8	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6	7.5 7.7 7.9 7.9 7.3 5.7 5.5
1 2 3 4 5 6 7 8 9 10	  11.8 12.6 12.5 12.0 11.6 11.0	FEBRUARY 10.6 11.8 12.0 11.5 11.0 10.7	  11.0 12.2 12.3 11.8 11.2 10.9	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.0 9.3 e7.5	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 5.1 4.7	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.5	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 5.8
1 2 3 4 5 6 7 8 9 10	11.8 12.6 12.5 12.0 11.6 11.0	FEBRUARY 10.6 11.8 12.0 11.5 11.0 10.7	11.0 12.2 12.3 11.8 11.2 10.9	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3 e7.5 7.5	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 5.1 4.7 4.7 5.9	6.3 6.4 8.3 8.4 7.9 7.8 6.5 5.4 5.0	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6 5.8 5.5	7.5 7.7 7.9 7.9 7.3 5.7 5.5 6.0 5.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14	11.8 12.6 12.5 11.0 11.0 11.2 11.2 10.4 10.2	FEBRUARY 10.6 11.8 12.0 11.5 11.0 10.7 10.4 10.3 10.0 9.6	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3 e7.5 7.5	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8 7.9	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 5.1 4.7 4.7 5.9	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.5 5.6 6.3	7.5 7.7 7.9 7.9 7.3 5.7 5.5 6.0 5.8
1 2 3 4 5 6 7 8 9 10	11.8 12.6 12.5 12.0 11.6 11.0 11.2	FEBRUARY 10.6 11.8 12.0 11.5 11.0 10.7 10.4 10.3 10.0	11.0 12.2 12.3 11.8 11.2 10.9	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.0 9.3 e7.5 7.5	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 4.7 4.7 5.9 6.6	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9	MAY 7.3 7.5 7.7 6.3 5.4 5.6 5.8 5.5 6.6 6.3 6.6	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 5.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14	11.8 12.6 12.5 11.0 11.0 11.2 11.2 10.4 10.2	FEBRUARY 10.6 11.8 12.0 11.5 11.0 10.7 10.4 10.3 10.0 9.6	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.5 7.6	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8 7.9	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 4.7 4.7 5.9 6.6 6.2	6.3 6.4 8.4 8.2 7.9 7.8 6.5 5.4 5.0	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6 6.3 6.6 7.1	7.5 7.7 7.9 7.9 7.3 5.7 5.8 6.0 6.0 6.0 7.3 7.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.8 12.6 12.5 12.0 11.6 11.0 11.2 11.2 10.4 10.2 9.8 9.6 9.5	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4 9.3 9.2	12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2 10 9.5 9.5 9.4	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 7.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8 6.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0 5.1 6.5 6.6 6.4 6.7 6.3	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4 7.6	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6 6.3 6.6 7.1 7.2 7.3 6.8	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.0 7.3 7.4
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	11.8 12.6 12.5 12.0 11.6 11.0 11.2 11.2 10.4 10.2 9.6 9.5 9.4	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.5 9.4 9.2	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 6.2	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.5 8.5 7.8 7.9 7.9 7.5 7.4 7.3 6.6	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8 6.6	APRIL  6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0 5.1 6.8 6.6 6.4 6.7 6.3 5.8	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4 7.6	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.6 6.3 6.6 7.1 7.2 7.3 6.6 6.6	7.5 7.7 7.9 7.9 7.3 5.5 5.8 6.0 6.6 7.0 7.3 7.4 7.4 7.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.8 12.6 12.5 12.0 11.6 11.0 11.2 11.2 10.4 10.2 9.8 9.6 9.5	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4 9.3 9.2	12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2 10 9.5 9.5 9.4	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 7.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8 6.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0 5.1 6.5 6.6 6.4 6.7 6.3	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4 7.6	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.6 6.3 6.6 7.1 7.2 7.3 6.8	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.0 7.3 7.4
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	11.8 12.6 12.5 12.0 11.6 11.0 11.2 10.4 10.2 9.8 9.6 9.5 9.7	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.5 9.4 9.2 9.1	11.2 11.5 12.1 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.6 7.0 7.0	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 6.2 5.2 6.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.5 8.5 7.8 7.9 7.9 7.5 7.4 7.3 6.6 6.0 6.5	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8 6.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.7 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5 5.9 6.1	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.4 5.0 5.1 6.8 6.6 6.4 6.7 6.3 6.1 6.6	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 7.3 7.4 7.6 7.6 7.6 7.7	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.6 6.3 6.6 7.1 7.2 7.3 6.6 6.6 7.0	7.5 7.7 7.9 7.9 7.3 5.7 5.8 6.0 6.0 6.0 7.3 7.4 7.4 7.1 6.0 7.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	11.8 12.6 12.5 11.0 11.6 11.0 11.2 11.2 10.4 10.2 9.8 9.6 9.5 9.5	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2 10 9.5 9.5 9.4 9.2	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 7.0 6.2 5.2	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3 6.6	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 7.0 6.8 6.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.9	6.3 6.4 8.3 8.4 8.2 7.9 7.85 5.4 5.0 5.1 6.5 6.6 6.4 6.7 6.3 5.8	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.4 7.6 7.6 7.4 7.6	MAY 7.3 7.57 7.8 6.3 5.4 5.4 5.6 6.6 6.6 7.1 7.2 7.3 6.8 6.6 6.6	7.5 7.7 7.9 7.9 7.3 5.7 5.5 6.0 6.6 7.0 7.3 7.4 7.1 6.8
1 2 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	11.8 12.6 12.5 12.0 11.6 11.0 11.2 10.4 10.2 9.8 9.6 9.5 9.4 9.5 9.7 9.9 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.5 9.4 9.2 9.1 9.0 9.4	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.6 7.0 7.0 7.0	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2 7.0 6.2 5.2 6.0 5.7 6.0 6.3	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.6 9.5 8.5 7.8 7.9 7.5 7.5 7.4 7.3 6.6 6.0 6.5 5.9 6.2 6.5	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 7.0 6.8 6.6 6.9 7.1 6.9 7.2 7.5 7.6	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5 5.9 6.1 6.6 6.9 7.2	6.3 6.4 8.3 8.4 8.2 7.9 7.8 6.5 5.1 6.5 6.6 6.4 6.7 6.3 6.6 6.4 6.7 6.9 7.3 7.4	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4 7.6 7.6 7.2 7.4 7.8 7.9 7.6	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.5 6.3 6.6 7.1 7.2 7.3 6.8 6.6 6.6 7.0 7.3 7.6 7.3	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.0 7.3 7.4 7.4 7.1 6.8 7.0 7.2 7.5 7.7
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24	11.8 12.6 12.5 12.0 11.6 11.0 11.2 11.2 10.4 10.2 9.8 9.6 9.5 9.7 9.9 9.8 9.8 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3  9.2 9.1 9.4 9.4 9.4	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.8 10.2 10 9.5 9.5 9.4 9.2 9.1 9.0	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.0 7.0 7.0 7.0 7.0	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2  7.0 7.0 6.2 5.2 6.0  5.7 6.0 6.3 6.6	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3 6.0 6.5 5.9	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 7.0 6.8 6.6 6.9 7.1 6.9 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 7 5.1 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.9 6.1 6.6 6.9 7.2 7.0	6.3 6.4 8.3 8.4 8.2 7.9 7.85 5.4 5.0 5.1 6.5 6.6 6.4 6.7 6.3 5.1 6.6 6.6 6.9 7.3 7.3	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.4 7.6 7.6 7.2 7.4 7.8 7.9 7.9	MAY 7.3 7.57 7.8 6.3 5.4 5.4 5.6 5.8 5.5 5.6 6.6 7.1 7.2 7.3 6.8 6.6 7.0 7.3 7.6 7.3 6.8	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.3 7.4 7.4 7.1 6.8 7.0 7.2 7.5 7.7
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	11.8 12.6 12.5 12.0 11.6 11.0 11.2 10.2 9.8 9.6 9.5 9.4 9.5 9.7 9.8 9.8 9.8 9.8 9.8 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3  9.2 9.1 9.4 9.5	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.5 9.4 9.2 9.1 9.4 9.6 9.5 9.7	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.6 7.0 7.0 7.0 6.3 6.4 6.7 7.6 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2  7.0 6.2 5.2 6.0 5.7 6.0 6.3 6.6 7.5	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3 6.6 6.0 6.5 5.9 6.2 6.5 7.3 7.8	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 7.0 6.8 6.6 6.9 7.1 6.0 6.4 6.9 7.2 7.5 7.6 7.8	APRIL 6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5 5.9 6.1 6.6 6.9 7.2 7.0 7.2	6.3 6.4 8.3 8.4 8.2 7.9 6.5 5.0 5.5 6.8 6.4 6.7 6.3 8.6 6.4 6.7 7.4 7.3 7.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.3 7.4 7.6 7.6 7.2 7.4 7.6 7.2 7.4 7.6 7.2 7.3 6.8	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.6 5.8 5.5 6.3 6.6 7.1 7.2 7.3 6.8 6.6 7.0 7.3 6.8 6.3	7.5 7.7 7.9 7.9 7.3 5.7 5.5 6.0 6.6 7.0 7.3 7.4 7.4 7.1 6.8 7.0 7.5 7.7 7.5 7.7
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11.8 12.6 12.5 11.6 11.0 11.2 11.2 11.2 10.4 10.2 9.8 9.6 9.5 9.7 9.9 9.8 9.8 9.8 9.8 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3  9.2 9.1 9.4 9.5 9.4 9.5 9.4 9.5	11.0 12.2 12.3 11.3 11.2 10.9 10.8 10.2 10 9.5 9.4 9.2 9.1 9.0 9.4 9.5 9.7 9.6 10.8 10.8	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.6 7.0 7.0 7.0 7.0 7.0 8.3 8.3 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2  7.0 7.0 6.2 5.2 6.0  5.7 6.0 6.3 6.6 7.5 8.1 8.7 8.5 8.1	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3 6.0 6.5 7.3 7.8 8.4 8.8 8.7 8.3	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 6.9 6.6 6.6 6.9 7.1 6.4 6.9 7.5 7.6 7.7 7.7	APRIL  6.0 5.9 7.7 8.0 8.1 7.7 7.5 7 5.1 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5 9 6.1 6.6 6.9 7.2 7.1 7.3 7.3 7.4	6.3 6.4 8.4 8.2 7.9 7.85 5.4 5.0 5.1 6.6 6.4 6.7 7.3 7.5 7.5 7.5 7.5 7.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.4 7.6 7.6 7.2 7.4 7.8 7.9 7.6 7.3 6.8 6.3 6.3	MAY 7.3 7.57 7.8 6.3 5.4 5.4 5.6 5.8 5.5 5.6 6.6 7.1 7.2 7.3 6.8 6.6 7.0 7.3 6.8 6.3 5.9 4.7 4.8	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.3 7.4 7.4 7.1 6.8 7.0 7.2 7.5 7.7 7.5 7.0 6.6
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	11.8 12.6 12.5 12.0 11.6 11.0 11.2 10.2 9.8 9.6 9.5 9.4 9.5 9.7 9.8 9.8 9.8 9.8 9.8 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3  9.2 9.1 9.4 9.5 9.4 9.5	12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.5 9.4 9.2 9.1 9.4 9.6 9.5 9.7	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.6 7.0 7.0 7.0 6.3 6.4 6.7 7.6 8.3 8.8 9.0 8.8 8.6 8.3	MARCH  10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2  7.0 6.2 6.0 6.3 6.6 7.5 8.1 8.7 8.5 8.1 7.0	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.4 9.5 8.5 7.9 7.5 7.4 7.3 6.6 6.5 5.9 6.2 6.5 7.8 8.4 8.7 8.7 8.7	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 7.0 6.8 6.6 6.9 7.1 6.4 6.9 7.2 7.5 7.6 7.4 7.8 7.8	APRIL  6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5 5.9 6.1 6.6 6.9 7.2 7.0 7.3 7.3	6.3 6.4 8.4 7.8 6.5 5.0 5.1 6.8 6.4 6.7 7.8 6.6 6.4 7.3 7.5 7.5 7.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.2 5.9 7.3 7.4 7.6 7.4 7.0 7.2 7.4 7.8 7.8 7.6 7.3 6.8	MAY 7.3 7.5 7.7 8 6.3 5.4 5.6 5.8 5.5 6.3 6.6 7.1 7.2 7.3 6.8 6.6 6.7 7.3 6.8 6.6 7.3 6.8 5.9 4.7	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.0 7.4 7.4 7.1 6.8 7.0 7.5 7.7 7.5 7.7 7.5 7.6 6.6
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11.8 12.6 12.5 11.0 11.2 11.2 10.4 10.2 9.8 9.6 9.5 9.4 9.5 9.7 9.8 9.8 9.8 9.8 9.8	FEBRUARY  10.6  11.8 12.0 11.5 11.0 10.7  10.4 10.3 10.0 9.6 9.4  9.3 9.2 8.9 8.6 8.3  9.2 9.1 9.4 9.5 9.4 9.5	11.0 12.2 12.3 11.8 11.2 10.9 10.8 10.2 10 9.5 9.4 9.2 9.1 9.0 9.4 9.6 9.7 9.6 10.8 10.8	11.2 11.5 12.1 11.8 11.6 11.4 10.1 9.7 9.6 9.4 8.2 8.3 8.4 7.9 7.8 7.6 7.0 7.0 7.0 7.0 7.0 8.3 8.3 8.3	MARCH  10.5 10.5 11.2 11.7 11.1  10.6 10.1 9.0 9.3  e7.5 7.5 7.6 7.2  7.0 7.0 6.2 5.2 6.0  5.7 6.0 6.3 6.6 7.5 8.1 8.7 8.5 8.1	10.8 11.0 11.7 11.9 11.4 11.1 10.5 9.4 9.5 8.5 7.8 7.9 7.5 7.4 7.3 6.0 6.5 7.3 7.8 8.4 8.8 8.7 8.3	6.7 7.7 9.9 8.8 8.5 8.2 8.0 7.6 5.7 5.2 5.9 7.0 6.8 6.6 6.9 7.1 6.4 6.9 7.5 7.6 7.6 7.7 7.5	APRIL  6.0 5.9 7.7 8.0 8.1 7.7 7.5 5.1 4.7 5.9 6.6 6.2 6.3 6.4 5.7 5.5.9 6.1 6.6 6.9 7.2 7.0 7.2 7.1 7.3 7.3 7.4 7.3	6.3 6.4 8.4 7.9 7.8 5.4 6.5 5.4 6.6 6.4 6.7 7.3 7.5 7.5 7.5 7.5 7.5 7.5	7.8 7.9 8.2 8.1 8.0 6.3 5.8 6.1 6.2 5.9 6.4 6.9 7.4 7.6 7.6 7.4 7.0 7.2 7.4 7.9 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	MAY 7.3 7.5 7.7 7.8 6.3 5.4 5.4 5.8 5.5 6.3 6.6 7.1 7.2 7.3 6.8 6.6 6.7 7.3 7.6 7.3 6.8 6.6 7.0 7.3 7.6 7.3 6.8 6.3	7.5 7.7 7.9 7.9 7.3 5.7 5.5 5.8 6.0 6.6 7.0 7.4 7.1 6.8 7.2 7.5 7.7 7.5 7.0 6.6 6.6 6.0 6.6 7.3

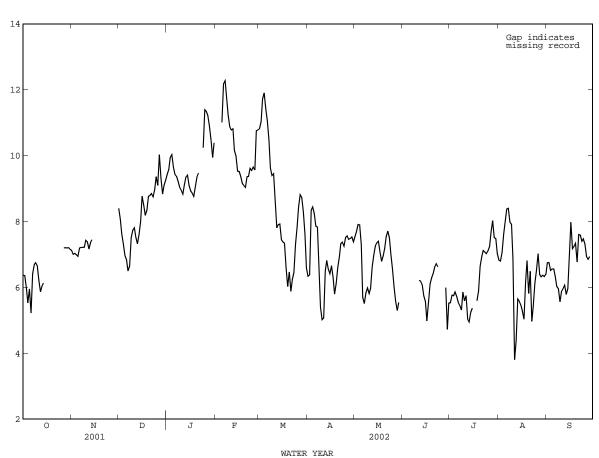
## 08057448 Trinity River near Wilmer, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		A	AUGUST		S	SEPTEMBE	R
1 2 3 4 5		  	  	6.0 6.0 6.2 6.2	4.8 5.6 5.4 5.5 5.5	5.5 5.8 5.8 5.9 5.7	7.1 7.1 7.9 8.3 9.2	6.5 6.6 6.5 6.8 6.7	6.8 6.8 7.1 7.6 8.0	7.2 8.0 7.2 7.0	6.2 6.1 5.7 6.1 6.0	6.8 6.5 6.6 6.6
6 7 8 9 10	  	  	  	5.8 5.8 5.5 6.2 5.8	5.4 5.1 5.0 5.5 5.3	5.6 5.4 5.3 5.9 5.6	8.8 8.9 8.6 8.3 8.2	7.9 7.9 7.1 7.4 4.2	8.4 8.4 8.0 7.9 6.9	7.0 6.4 6.2 6.2 6.1	6.1 5.7 5.8 4.9 5.5	6.3 6.0 6.0 5.6 5.9
11 12 13 14 15	6.4 6.5 6.3 6.1 5.8	6.0 5.8 5.9 5.2 5.4	6.2 6.2 6.1 5.7 5.6	6.3 6.3 5.3 5.5	5.3 3.5 4.7 4.9	5.8 5.0 5.0 5.2 5.4	5.2 5.5 5.9 5.9 6.0	2.5 3.6 5.1 5.3 4.9	3.8 4.4 5.6 5.6 5.5	6.2 6.4 6.0 6.3 9.1	5.7 5.8 5.2 5.7 5.9	6.0 6.1 5.8 6.0 7.0
16 17 18 19 20	6.1 6.4 6.5 6.8	3.3 4.6 5.8 6.1 6.1	5.0 5.5 6.1 6.3 6.4	 6.4 6.2 8.0	4.8 5.6 6.0	 5.6 5.9 6.7	6.4 6.1 7.0 8.2 6.8	4.6 3.7 5.7 5.9 5.0	5.3 5.0 6.2 6.8 5.8	9.4 7.4 7.6 7.7 7.8	6.3 6.9 7.0 6.4 5.3	8.0 7.2 7.2 7.3 6.8
21 22 23 24 25	6.9 7.1 7.1 	6.4 6.4 6.3	6.6 6.7 6.6 	7.4 7.7 7.5 7.4 7.5	6.5 6.7 6.7 6.6 6.7	6.9 7.1 7.1 7.0 7.1	7.8 7.1 7.3 8.3 7.8	5.1 3.0 4.0 4.7 5.4	6.5 5.0 5.4 6.1 6.5	7.9 7.9 7.6 7.7 7.5	7.3 7.3 7.2 7.3 6.9	7.6 7.6 7.4 7.5 7.3
26 27 28 29 30 31	 6.4 5.8 6.2	 5.2 3.2 4.7	 6.0 4.7 5.5	7.7 8.4 8.7 8.0 7.9 7.3	6.9 7.0 7.4 7.3 7.1 6.7	7.2 7.7 8.0 7.5 7.5 7.0	7.5 8.0 7.0 6.8 6.6 7.3	6.6 4.2 4.7 6.1 5.9 5.4	7.0 6.4 6.3 6.4 6.3 6.4	7.3 7.1 7.2 	6.8 6.6 6.7 	6.9 6.9 6.9 
MONTH							9.2	2.5	6.4			

## e Estimated

DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER



## 08058900 East Fork Trinity River at McKinney, TX

LOCATION.--Lat 33°14′40", long 96°36′30", Collin County, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State Highways 5 and 121, 750 ft downstream from Honey Creek, 1.2 mi upstream from Southern Pacific Railway Co. bridge, 1.7 mi upstream from Clemons Creek, 3.3 mi north of McKinney, 26.1 mi upstream from Lavon Dam, and 86.5 mi upstream from mouth.

DRAINAGE AREA. -- 164 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1975 to current year.

Water-quality records.--Chemical data: Oct. 1980 to Sept. 1982, Oct. 1985 to July 1987, Apr. 1993 to Sept. 1995. Biochemical data: Oct. 1980 to Sept. 1982, Oct. 1985 to July 1987, Apr. 1993 to Sept. 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 528.74 ft above NGVD of 1929. Satellite telemeter at station.

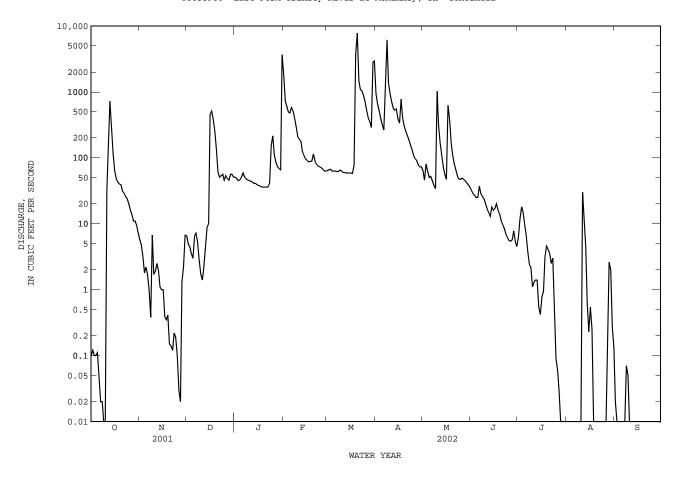
REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1975, at least 10% of contributing drainage area has been regulated. Small diversions for irrigation above the station are made at times. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, about 28 ft in Apr. 1942 (discharge not determined), from information by Texas Department of Transportation.

		DISCHARGE	FROM DCP,	CUBIC FEE		OND, WA		OCTOBER 200	1 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.10 0.12 0.10 0.10 0.11	5.8 4.8 3.2 1.8 2.2	6.5 4.9 4.5 3.5 3.0	e51 e48 45 46 51	1860 727 600 495 479	64 66 67 63 63	939 653 515 402 318	63 46 81 62 50	32 29 27 25 25	6.2 12 18 15	0.0 0.0 0.0 0.0	0.02 0.0 0.0 0.0 0.0
6 7 8 9 10	0.05 0.02 0.02 0.0 0.0	1.7 0.99 0.38 6.7 1.7	6.5 7.2 5.2 2.8 1.7	59 51 48 46 45	583 514 393 298 211	63 62 62 65 63	264 1660 6130 1370 939	34	37 29 26 24 20	6.6 3.7 2.4 2.2 1.1	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.07 0.05 0.0
11 12 13 14 15	33 141 723 259 115	1.9 2.5 1.9 1.1	1.4 2.2 4.3 8.7	44 43 41 41 39	191 178 125 109 97	60 60 59 59 59	707 568 528 550 392			1.3 1.4 1.4 0.55 0.42	30 13 4.4 0.64 0.23	0.0 0.0 0.0 0.0
16 17 18 19 20	63 48 43 40 39	1.0 0.39 0.35 0.41 0.15		38 37 36 36 36			335 775 411 305 254	47 628 382 167 111	17 20 16 14 11	0.77 0.95 3.1 4.6 4.1	0.54 0.25 0.0 0.0	0.0 0.0 0.0 0.0 0.01
21 22 23 24 25	31 29 26 24 20	0.14 0.12 0.22 0.19 0.10		36 36 41 153 216				81 65 53 48 47			0.0 0.0 0.0 0.0	
26 27 28 29 30 31	16 14 11 11 9.4 7.2	0.03 0.02 1.3 2.2 6.7	e54 e48 e46 e56 e56	113 86 74 69 66 3670	67 63 63  	534 409 357 289 2830 2930	97 91 78 73 73	49 47 45 42 39 36	5.4 5.7 7.8 5.3 4.5	0.06 0.03 0.0 0.0 0.0	0.0 0.19 2.6 2.0 0.27 0.13	0.0 0.0 0.0 0.0 0.0
TOTAL MEAN MAX MIN AC-FT	1703.22 54.94 723 0.00 3380	1.700	2369.4 76.43 510 1.4 4700	5441 175.5 3670 36 10790	7910 282.5 1860 63 15690	25215 813.4 7780 58 50010	19235 641.2 6130 73 38150	4099 132.2 1020 34 8130	496.7 16.56 37 4.5 985	105.55 3.405 18 0.00 209	54.26 1.750 30 0.00 108	0.15 0.005 0.07 0.00 0.3
STATIS	STICS OF	MONTHLY ME			EARS 1976		, BY WATE	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	83.93 1022 1982 0.000 1978	126.9 1120 1995 0.000 1978	152.3 1160 1992 0.000 1978	105.3 805 1998 0.000 1978	218.1 987 2001 1.37 1976	251.9 813 2002 2.30 1976	161.4 804 1990 4.08 1980	255.1 1704 1982 2.52 1996	127.1 737 1989 0.81 1996	21.20 213 1994 0.000 1984		6.931 64.0 1994 0.000 1977
SUMMAR	RY STATIS	STICS	FOR	2001 CALEN	DAR YEAR	1	FOR 2002	WATER YEAR		WATER YEAR	RS 1976 -	2002
ANNUAL HIGHES LOWEST ANNUAL MAXIMU ANNUAL 10 PER 50 PER	דבוותות דב	MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	1	68580.91 187.9 6420 0.00 0.00 136000 446 46 0.00	Feb 16 Jul 16 Jul 16		7780 0. 0. 13600 20. 132300 410 29	7  Mar 20 00 Oct 9 00 Jul 28 Mar 20 27 Mar 20		125.7 373 4.6! 26800 0.0! 0.00 61800 22.1' 91030 252 14 0.00	5 May 13 0 Aug 18 0 Aug 18 May 13 7 May 13	1982 1980 1982 1976 1976 1982 1982

e Estimated

08058900 East Fork Trinity River at McKinney, TX--Continued



08059400 Sister Grove Creek near Blue Ridge, TX (Flood hydrograph-partial record station)

LOCATION.--Lat 33°17'40", long 96°28'58", Collin County, Hydrologic Unit 12030106, on left bank at upstream side of highway embankment of bridge on Farm Road 545, 3.5 mi upstream from Hatler Branch, 4.8 mi west of Blue Ridge, 7.4 mi upstream from Stiff Creek, 14.7 mi upstream from mouth, and 24.7 mi upstream from Lavon Dam.

DRAINAGE AREA. -- 83.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1975 to Sept. 2001 (daily mean discharge). Oct. 2001 to Sept. 2002.(peaks above base discharge)
Water-quality records.--Chemical data: Nov. 1985 to June 1987, Oct. 1995 to Sept. 1999. Biochemical data: Nov. 1985 to Jun
1987, Oct. 1995 to Sept. 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 526.29 ft above NGVD of 1929. Prior to June 29, 1988, at datum 10.00 ft higher at same site. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in July 1975, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 34 floodwater-retarding structures. These structures control runoff from 47.4 mi<sup>2</sup>. Discharge may contain flow released from Lake Texoma and placed into channel 40 miles upstream from site. No flow at times.

AVERAGE DISCHARGE.--26 years (water years 1975-2001),  $69.5~\mathrm{ft}^3/\mathrm{s}$  (50,340 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft<sup>3</sup>/s, May 13, 1982, gage height, 32.50 ft. Mimimum discharge, no flow at times, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.—A stage of 30.7 ft, present datum, probably occurred in July 1913, from information by the Texas Department of Transportation. The probable date is from published records for Sister Grove Creek near Princeton (station 08059500, discontinued) located 9.7 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of  $692~{\rm ft}^3/{\rm s}$  and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 17	0000	709	19.15	Apr 8	0915	2,690	26.94
Jan 31	2215	2,380	26.50	Apr 17	1400	2,190	26.21
Mar 20	0715	*2,800	*27.07	May 17	1830	913	20.86
Mar 30	2000	2,130	26.12	=			

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## 08060500 Lavon Lake near Lavon, TX

LOCATION.--Lat 33°01'54", long 96°28'56", Collin County, Hydrologic Unit 12030106, in right abutment of spillway in dam on East Fork Trinity River, 3,850 ft upstream from St. Louis Southwestern Railway Lines bridge, 4,000 ft upstream from bridge on State Highway 78, 2.9 mi west of Lavon, and 55.9 mi upstream from mouth.

DRAINAGE AREA. -- 770 mi<sup>2</sup>.

PERIOD OF RECORD.--Sept. 1953 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Lavon Reservoir".

Water-quality records.--Chemical data: Oct. 1969 to Sept. 1974, Oct. 1975 to Sept. 1982, Oct. 1995 to Sept. 1999. Biochemical data: Oct. 1969 to Sept. 1974, Oct. 1975 to Sept. 1982, Oct. 1999.

REVISED RECORDS -- WSP 1922: Drainage area

GAGE .-- Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Jan. 20, 1954, nonrecording gage in the approach channel at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfill dam 18,860 ft long, including a 568-foot gated spillway with twelve 40.0- by 28.0-foot tainter gates. The original dam was 9,499 ft long, but conservation capacity was increased to present size in Dec. 1975. Deliberate impoundment began Sept. 14, 1953, and the dam was completed in Oct. 1953. Low-flow outlets consist of five 36-inch-diameter controlled sluice gates. Lake was designed for flood control and water conservation. Water for municipal supply can be released down to elevation 453.0 ft. Flow is affected at times by discharge from the flood-detention pools of 149 floodwater-retarding structures with a combined detention capacity of 69,170 acre-ft. These structures control runoff from 242 mi<sup>2</sup> in the East Fork Trinity River, Pilot Grove, and Sister Grove Creek drainage basins. The dam is owned by the U.S. Army Corps of Engineers. Conservation pool storage is 456,526 acre-ft. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam	514.0
Design flood	509.0
Top of tainter gates	503.5
Top of conservation pool	
Crest of spillway (sill of tainter gates)	
Lowest gated outlet (invert)	453.0

COOPERATION .-- Origin of Capacity Table No. 2 unknown; in use since Oct. 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 791,000 acre-ft, May 3, 1990, elevation, 504.93 ft; minimum since lake first filled in 1957, 80,150 acre-ft, Apr. 17, 1976, elevation, 465.96 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 587,700 acre-ft, Apr. 11, elevation, 497.63 ft; minimum contents, 292,600 acre-ft, Dec. 14, elevation, 483.30 ft.

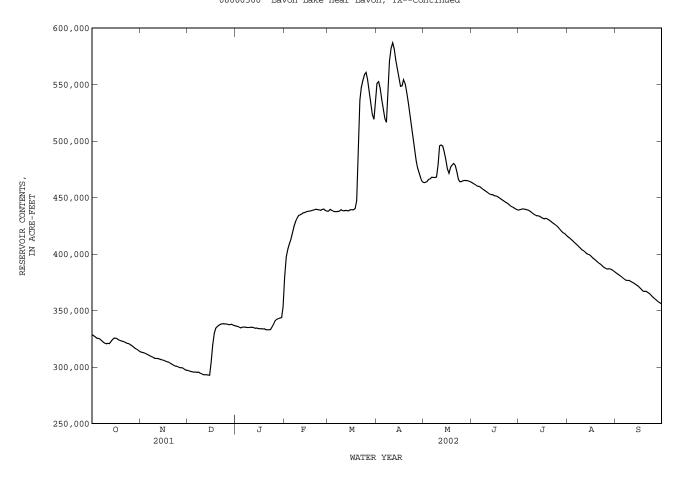
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328600	313300	296900	336200	380100	437900	551000	463100	462900	439000	415300	383100
2	327500	313000	296400	335800	397500	439500	552500	463400	462000	439500	414200	382100
3	326600	312500	296100	335200	404400	438600	546600	464000	461300	439900	413100	381100
4	325400	311900	295700	334600	408800	437900	537400	466000	460200	439800	411700	380100
5	325300	311200	295500	335200	413000	437500	528500	e466500	459900	439500	410400	379000
6	324600	310500	295500	335300	418800	437400	520000	e467900	459100	439000	409100	377900
7	323300	309700	295200	335300	424700	437700	516600	467800	458200	438400	407800	376800
8	322100	309000	295500	335000	429000	437900	541000	467600	457100	437700	406400	376600
9	321000	308400	294400	334900	431600	439200	571000	468100	456100	436700	405000	376600
10	320500	307600	293800	335100	434100	438400	582000	479300	455100	435600	403600	375900
11	320900	307600	293200	335200	434700	438200	586800	495600	454200	434500	403000	375100
12	320700	307400	293200	335000	435500	438600	581200	496400	453100	433800	401800	374300
13	322400	307000	293200	334200	436500	438300	571900	495400	452500	433800	400300	373300
14	324100	306600	292900	334500	436600	438200	564600	489800	452600	433200	399700	372300
15	325600	306100	292800	334100	437500	439100	556600	483600	451500	432400	399100	371500
16	325500	305600	303600	333800	437800	439200	548400	475300	451400	431600	397800	370100
17	324900	305100	319300	333900	438100	439100	548800	471400	450700	431100	396300	368700
18	323800	304400	329800	333700	438100	440100	554300	476800	449800	431600	395200	367100
19	323300	304400	334400	333700	438700	447000	550800	478700	448800	430800	394100	367000
20	322900	303200	335900	332900	439100	496700	542900	480100	447900	429900	392900	367000
21	322500	302400	336800	333000	439600	536100	533600	478400	447000	429000	391800	366000
22	321800	301500	337700	333000	439300	547500	523800	472800	446000	427900	390700	365100
23	321100	300700	338300	333200	439100	553700	513200	466000	445200	426900	389500	363700
24	320800	300700	338300	335400	438500	558800	503100	464000	444100	425900	388200	362300
25	320100	300000	338100	338200	439500	560600	492900	463900	443000	424800	387300	361000
26 27 28 29 30 31	319100 318300 317000 316000 315200 314200	299400 299400 299100 298000 297200	338000 337500 337500 337800 337100 336600	341000 342100 342700 343300 343700 353400	439800 438500 438000 	554300 544100 533200 523300 519200 535200	482500 476100 471500 466800 463800	464900 465200 465000 464800 464200 463700	441900 441300 440300 439500 438900	423200 421600 420000 418700 417900 416700	386700 386900 386700 386100 385200 384100	359900 358600 357400 356600 355600
TOTAL MEAN MAX MIN	9985100 322100 328600 314200	9162900 305400 313300 297200	9757000 314700 338300 292800	10432600 336500 353400 332900	429500 439800 380100	14802500 477500 560600 437400	532700 586800 463800	14649700 472600 496400 463100	451100 462900 438900	13360400 431000 439900 416700	12340000 398100 415300 384100	370100 383100 355600
(+)	484.57	483.57	485.85	486.77	491.12	495.48	492.34	492.33	491.16	490.06	488.41	486.90
(@)	-15500	-17000	+39400	+16800	+84600	+97200	-71400	-100	-24800	-22200	-32600	-28500
CAL YR	: 200I	MAX 65950	0 MIN 2	9∠8UU (@)	-130500							

MAX 659500 MIN 292800 (@) -130500 MAX 586800 MIN 292800 (@) +25900 WTR YR 2002

<sup>(+)</sup> Elevation, in feet, at end of month. (@) Change in Contents, in acre-feet.

08060500 Lavon Lake near Lavon, TX--Continued



## 08061540 Rowlett Creek near Sachse, TX

LOCATION.--Lat 32°57′35", long 96°36′51", Dallas County, Hydrologic Unit 12030106, on right bank at downstream side of railroad embankment of Gulf, Colorado, and Santa Fe Railway Co., 100 ft downstream from Spring Creek, 150 ft upstream from State Highway 78, and 1.5 mi southwest of Sachse.

DRAINAGE AREA.--120  $\mbox{mi}^2$ .

PERIOD OF RECORD. -- Mar. 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 450.00 ft above NGVD of 1929. Mar. 1968 to Aug. 25, 1993, at site on left bank 150 ft downstream. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. The North Texas Municipal Water District returns wastewater effluent into a tributary above this station. No flow at times.

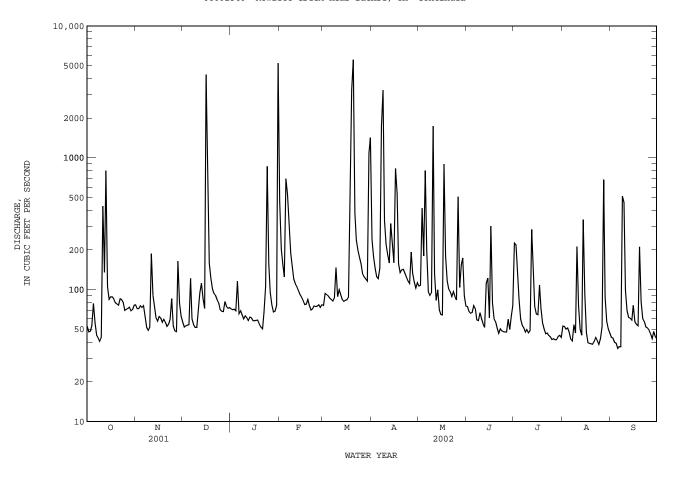
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1942, 35.4 ft in 1942, from information by Texas Department of Transportation.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	1	DISCHARGE	FROM DCP,	CORIC LEE		OND, WAI MEAN VA		OCTOBER 200	I TO SE	PTEMBER 200.	2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	77	57	71	468	76	240	106	74	225	53	44
2	48	72	52	70	204	94	177	108	68	219	53	43
3	48	72	53	71	154	92	145	415	66	140	50	40
4	53	75	54	69	125	90	126	180	67	85	51	39
5	79	73	54	116	694	86	121	800	76	60	48	36
6	56	76	122	66	527	84	146	e200	72	54	42	37
7	45	63	60	69	311	82	1730	97	59	51	41	37
8	43	52	54	65	189	87	3260	90	58	48	54	511
9	41	49	52	60	151	147	335	95	67	50	47	457
10	43	52	52	63	120	89	221	1740	60	e47	212	99
11	429	187	69	61	111	100	184	131	55	49	75	69
12	135	91	95	58	105	91	159	83	52	286	50	62
13	801	73	112	62	99	84	317	100	112	140	45	61
14	105	62	86	61	92	81	226	70	122	75	340	59
15	84	58	72	58	88	83	160	65	61	65	93	76
16	88	63	4290	58	83	84	829	64	303	64	47	57
17	88	61	576	58	77	88	536	895	79	108	40	54
18	85	57	158	59	78	524	157	178	60	72	39	53
19	79	60	122	55	84	3260	135	117	57	56	39	211
20	78	56	101	52	75	5540	141	102	51	50	39	81
21	76	53	93	50	70	383	143	96	47	46	41	61
22	85	55	91	67	71	239	134	89	50	47	43	57
23	84	59	84	105	75	199	125	96	49	45	41	52
24	80	85	79	860	74	175	117	89	48	44	38	51
25	69	53	71	156	75	156	111	83	48	42	43	50
26 27 28 29 30 31	71 72 74 69 71 76	49 48 164 79 63	69 68 81 74 72 73	95 77 68 69 76 5230	e77 73 77  	133 125 121 116 1090 1420	193 133 114 103 113	506 104 154 174 90 75	48 60 50 63 76	42 42 42 44 45	52 683 87 58 50 47	46 42 48 44 43
TOTAL	3308	2137	7146	8155	4427	15019	10631	7192	2158	2426	2641	2620
MEAN	106.7	71.23	230.5	263.1	158.1	484.5	354.4	232.0	71.93	78.26	85.19	87.33
MAX	801	187	4290	5230	694	5540	3260	1740	303	286	683	511
MIN	41	48	52	50	70	76	103	64	47	42	38	36
AC-FT	6560	4240	14170	16180	8780	29790	21090	14270	4280	4810	5240	5200
MEAN MAX (WY) MIN (WY)	132.7 610 1982 4.88 1979	128.5 586 1995 7.63 1976	167.9 898 1992 7.52 1978	OR WATER Y 115.0 617 1998 6.72 1976	EARS 1968 169.6 680 2001 7.83 1976	- 2002, 195.4 484 2002 11.9 1971	165.2 573 1990 23.8 1972	228.2 1039 1982 18.8 1972	145.3 566 1981 4.60 1971	50.29 241 1994 1.91 1972	37.82 120 2001 1.78 1972	56.78 180 1974 3.75 1969
SUMMARY	STATIST	rics	FOR	2001 CALEN	DAR YEAR	F	OR 2002	WATER YEAR		WATER YEARS	S 1968 -	2002
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			79903 218.9 7570 41 43 158500 350 86 48	Feb 16 Aug 9 Jul 20		67860 185. 5540 36 39 18500 27. 134600 225 75 46	9 Mar 20 Sep 5 Sep 1 Mar 20 33 Mar 20		132.4 269 22.2 14900 0.00 32200 29.62 95900 212 49 8.5	Aug 24 Jan 5	1969 1969 1998	

e Estimated

## 08061540 Rowlett Creek near Sachse, TX--Continued



## 08061550 Lake Ray Hubbard near Forney, TX

LOCATION.--Lat 32°48′00", long 96°29′45", Kaufman County, Hydrologic Unit 12030106, near right end of spillway on Forney Dam on East Fork Trinity River, 0.5 mi upstream from Duck Creek, 1.8 mi upstream from bridge on U.S. Highway 80, 3.8 mi northwest of Forney, 24.0 mi downstream from Lavon Dam, and 31.8 mi upstream from mouth.

DRAINAGE AREA. -- 1,071 mi<sup>2</sup>.

PERIOD OF RECORD. -- Jan. 1968 to Dec. 1993, Oct. 1996 to current year. Water-quality records.--Chemical data: Oct. 1969 to Sept. 1979.

GAGE. -- Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records poor. The lake is formed by a rolled earthfill dam 12,500 ft long, including a 664-foot gated spillway with fourteen 40- by 28-foot tainter gates. Impoundment began in Sept. 1967, but all gates were not closed until Mar. 22, 1978. Low-flow releases are made through three 4.5- by 6.75-ft sluiceways. The lake was built by the city of Dallas for municipal water supply. Conservation pool storage is 490,000 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	450.0
Design flood	440.5
Top of conservation pool	438.8
Top of tainter gates	437.5
Crest of spillway (sill of tainter gates)	409.5
Lowest gated outlet (invert)	388.0

COOPERATION.--Capacity table No. 2 was provided by Forrest and Cotton, Consulting Engineers, for the city of Dallas, and put in use on Oct. 1, 1997.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 544,100 acre-ft, May 4, 1990, elevation, 437.81 ft; minimum contents since first appreciable filling, 311,800 acre-ft, Sept. 30, 2000, elevation, 430.26 ft; minimum elevation, 429.72 ft, Oct. 15, 2000, contents unknown.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 431,100 acre-ft, Mar. 20, elevation, 436.30 ft; minimum contents, 353,700 acre-ft, Sept. 30, elevation, 432.57 ft.

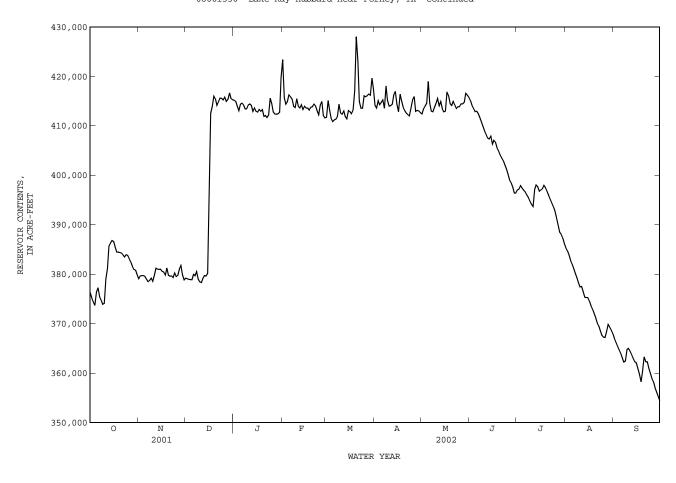
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376300	379100	379200	415200	423400	411700	414200	412400	415100	397000	385300	367100
2	375200	379600	379100	414900	415700	415100	413600	413400	414200	397200	384700	366300
3	374400	379700	379000	414000	414400	413300	415100	414000	413500	397900	383800	365500
4	373700	379700	378900	413100	414800	411500	414200	414500	412900	397400	382800	364700
5	376400	379600	378900	414400	416300	410900	414700	419000	413000	397000	382100	364000
6	377200	379000	380000	414600	415900	411200	415200	414600	412400	396600	381100	363100
7	375400	378500	379700	414200	415400	411300	413600	412900	411700	396000	380200	362200
8	374700	378700	380500	413400	413900	411900	418100	412800	410800	395500	379300	362400
9	373900	379200	379000	413400	413700	414400	415200	413800	409900	394800	378200	364800
10	374100	378600	378400	414200	415500	412600	414000	414600	409000	394200	377400	365000
11	379000	379700	378300	414400	413900	412300	414100	415500	408300	393700	377500	364500
12	381200	381200	379100	414200	413600	413000	414400	414100	407600	397200	376500	363700
13	385600	381000	379700	412900	414300	411900	416200	414900	407300	398000	375300	363000
14	386300	381000	379600	413600	413300	411400	417000	413500	407900	397700	375300	362300
15	386800	381000	380100	412900	414000	413100	414400	412800	406300	396800	375300	362100
16	386600	380600	398700	412800	413600	412900	412900	412900	407100	397000	374600	360900
17	385400	380400	412500	413300	413600	412400	416400	416900	406700	397300	373600	359700
18	384500	379800	413900	413000	413200	413200	415100	416100	405600	398000	372900	358200
19	384500	381300	416100	413300	413800	417000	413800	414400	404900	397500	372100	360300
20	384400	379800	415400	411900	413900	428000	413100	414100	404100	396800	371200	363300
21	384300	379600	414100	412100	414400	423100	412600	415000	403500	395900	370100	362300
22	383900	379600	414900	411700	414000	414900	412300	414200	402900	395200	369500	362300
23	383500	379300	415600	412100	413100	413600	412000	413500	402100	394400	368600	360900
24	383900	380300	415600	415600	412200	413600	413600	413900	401200	393700	367600	359900
25	383800	379500	415200	414400	414200	416100	415200	413900	400300	392700	367300	358900
26 27 28 29 30 31	383100 382500 381600 380900 380800 379800	379800 381100 381700 379900 378800	415800 414900 415400 416600 415600 415300	412800 412400 412400 412500 412800 419800	414900 412100 411600 	415900 416100 416500 416200 419700 417600	415900 412900 413100 413000 412600	414500 414500 414800 416600 416200 415800	399100 398500 397600 396400 396400	391300 389900 388500 388100 387300 386200	367200 368500 369800 369300 368700 368000	358200 356900 356100 355300 354400
MEAN	380800	379900	397300	413600	414400	414600	414300	414500	406200	394700	374600	361600
MAX	386800	381700	416600	419800	423400	428000	418100	419000	415100	398000	385300	367100
MIN	373700	378500	378300	411700	411600	410900	412000	412400	396400	386200	367200	354400
(+)	433.90	433.85	435.58	435.79	435.41	435.69	435.46	435.60	434.70	434.21	433.30	432.60
(@)	+2400	-1000	+36500	+4500	-8200	+6000	-5000	+3200	-19400	-10200	-18200	-13600

CAL YR 2001 MAX 434800 MIN 366700 (@) -3000 WTR YR 2002 MAX 428000 MIN 354400 (@) -23000

<sup>(+)</sup> Elevation, in feet, at end of month.(@) Change in contents, in acre-feet.

08061550 Lake Ray Hubbard near Forney, TX--Continued



## 08061750 East Fork Trinity River near Forney, TX

LOCATION.--Lat 32°46'27", long 96°30'12", Kaufman County, Hydrologic Unit 12030106, on right bank 25 ft downstream from bridge on U.S. Highway 80, 0.2 mi downstream from Duck Creek, 1.9 mi downstream from Lake Ray Hubbard Dam, 2.5 mi upstream from Texas and Pacific Railroad Co. bridge, 2.6 mi northwest of Forney, and 30.8 mi upstream from mouth.

DRAINAGE AREA.--1,118 mi<sup>2</sup>, of which 1,071 mi<sup>2</sup> is above Lake Ray Hubbard.

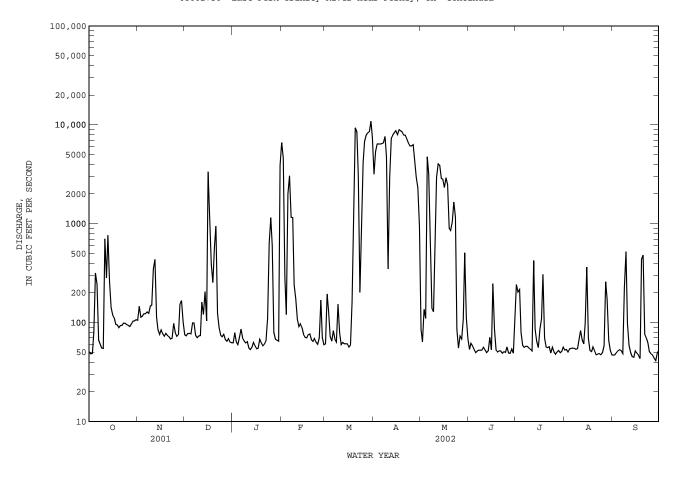
PERIOD OF RECORD.--Jan. 1973 to current year.

Water-quality records.--Chemical data: Nov. 1981 to Jan. 1993. Biochemical data: Nov. 1981 to Jan. 1993. Specific conductance: Oct. 1981 to Jan. 1993. ph: Aug. 1986 to Jan. 1993. Water temperature: Oct. 1981 to Jan. 1993. Dissolved oxygen: Aug. 1986 to Jan. 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 374.86 ft above NGVD of 1929. Prior to Aug. 26, 1975, recording gage at 3 ft higher datum located at site 126 ft upstream. From Aug. 26, 1975, to May 12, 1977, recording gage at 3 ft higher datum located at site 105 ft downstream. From May 13, 1977, to Sept. 30, 1984, recording gage at 3 ft higher datum at current site. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Jan. 1973, at least 10% of contributing drainage area has been regulated. Low flow is sustained by wastewater effluent discharge from the city of Garland into Duck Creek, which enters the East Fork Trinity River 0.2 mi upstream from this station.

08061750 East Fork Trinity River near Forney, TX--Continued



### 08062000 East Fork Trinity River near Crandall, TX

LOCATION.--Lat 32°38'19", long 96°29'06", Kaufman County, Hydrologic Unit 12030106, on right bank 15 ft downstream from downstream eastbound bridge on U.S. Highway 175, 0.7 mi downstream from Mustang Creek, 1.8 mi northwest of Crandall, 4.0 mi upstream from Buffalo Creek, and 11.0 mi upstream from mouth.

DRAINAGE AREA. -- 1,256 mi<sup>2</sup>.

PERIOD OF RECORD. -- June 1949 to current year.

Water-quality records.--Chemical data: Jan. to Apr. 1964, May 1966 to Sept. 1981, June 1986 to Sept. 2000. Biochemical data: Jan. to Apr. 1964, May 1966 to Sept. 2000. Pesticide data: Mar. 1977 to July 1981. Sediment data: Apr. to Sept. 1964. Specific conductance: Oct. 1967 to Sept. 1981, May 1886 to Sept. 2000. ph: Mar. to Sept. 1977, May 1986 to Sept. 2000. Water temperature: Oct. 1967 to Sept. 1981, May 1986 to Sept. 2000. Dissolved oxygen: Mar. to Sept. 1977, May 1986 to Sept 2000

REVISED RECORDS. -- WSP 1922: Drainage area. WDR TX-75-1: 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 338.69 ft above NGVD of 1929. Prior to Feb. 21, 1983, at datum 5.00 ft higher. Satellite telemeter at station.

MARKS.--Records fair, except those for estimated daily mean discharges, which are poor. Since Sept. 1953, at least 10% of contributing drainage area has been regulated by major reservoirs. The city of Forney discharges wastewater effluent into a tributary below Lake Ray Hubbard and above this station. The North Texas Municipal Water District discharges wastewater effluent into tributaries above this station from their Mesquite and Changler's Landing wastewater treatment plants. Flow is also affected at times by discharge from the flood-detention pools of 20 floodwater-retarding structures. These structures control runoff from a 39.2 mi<sup>2</sup> area above this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--4 years (water years 1950-53) prior to regulation by Lavon Lake, 652 ft<sup>3</sup>/s (472,400 acre-ft/vr).

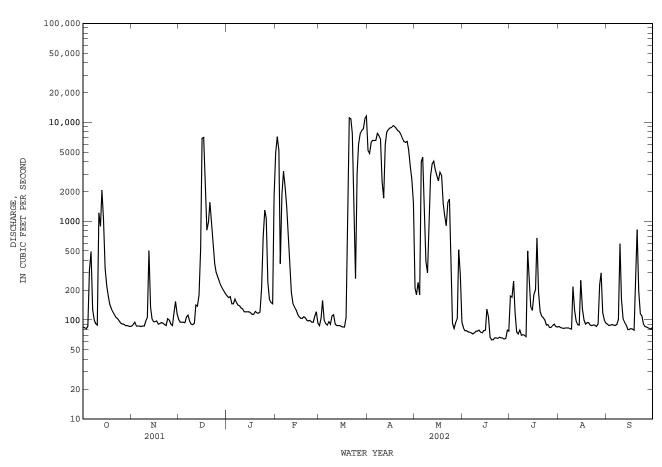
EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1950-53).--Maximum discharge, 16,400 ft<sup>3</sup>/s May 2, 1953 (gage height, 19.87 ft); no flow at times. DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES DAY ОСТ NOV DEC TAN FEB MAR APR MAY .TTTN .TTTT. ATIG SEP e5200 e210 e4850 e180 e5200 e6240 e240 e6550 e180 e6530 e4000 e6570 e4420 e7740 7300 e1760 e2220 e1390 e390 e300 e6790 e650 e327 e2540 e840 e1710 e2860 e6000 e3780 e7910 e4030 e8410 e3280 e8770 e2900 e2550 e8830 e9250 e3140 e9080 e2900 e8720 e1510 e11100 e8230 e10800 e8020 e7700 e7590 e1900 e6920 e262 e6400 e3040 e6240 e6000 e6390 e5270 e8250 e3610 --e8580 e2640 e10900 e1510 e11500 \_\_\_ TOTAL MEAN 287.1 111.4 798.1 281.2 75.30 148.8 112.9 143.3 MAX MIN AC-FT STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002z, BY WATER YEAR (WY) MEAN 375.0 473.9 695.2 616.7 864.0 412.8 158.2 201.2 MAX (WY) 3.57 1.58 3.78 7.77 7.47 17.8 0.000 0.000 MIN 23.1 10.6 42.1 3.84 

## 08062000 East Fork Trinity River near Crandall, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALEN	NDAR YEAR	FOR 2002 WAT	ER YEAR	WATER YEARS	1954	- 200	02z
ANNUAL TOTAL	625821		417919					
ANNUAL MEAN	1715		1145		732.3			
HIGHEST ANNUAL MEAN					2209		199	95
LOWEST ANNUAL MEAN					38.4		19	55
HIGHEST DAILY MEAN	20700	Feb 17	11500	Mar 31	48800	May	5 199	90
LOWEST DAILY MEAN	74	Aug 8	63	Jun 19	0.00	Oct	1 19	53
ANNUAL SEVEN-DAY MINIMUM	77	Aug 4	65	Jun 19	0.00	Oct	1 19	53
MAXIMUM PEAK FLOW			12700	Mar 31	59900	May	5 199	90
MAXIMUM PEAK STAGE			15.44	Mar 31	27.17	May	5 199	90
ANNUAL RUNOFF (AC-FT)	1241000		828900		530600			
10 PERCENT EXCEEDS	6810		5200		2170			
50 PERCENT EXCEEDS	144		113		98			
90 PERCENT EXCEEDS	82		80		21			

Estimated Period of regulated streamflow.



## 08062000 East Fork Trinity River near Crandall, TX--Continued

#### PRECIPITATION RECORDS

PERIOD OF RECORD. -- Oct. 2001 to Sept. 2002 (discontinued).

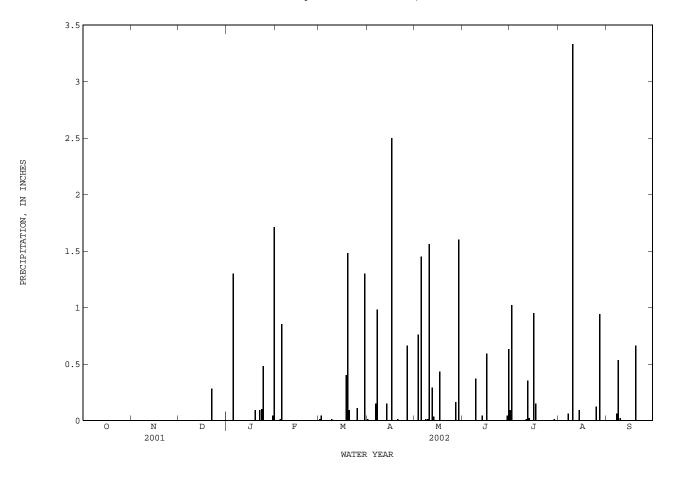
GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 338.69 ft above NGVD of 1929. REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR. -- Maximum daily rainfall, 3.339 inches, Aug. 10.

PRECIPITATION FROM DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY SUM VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP e0.00 e0.00 e0.00 0.00 0.00 0.01 0.01 0.00 0.00 0.09 0.00 0.00 1 2 e0.00 e0.00 ---0.00 0.00 0.04 0.00 0.00 0.00 1.02 0.00 0.00 3 e0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 e0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 5 --e0.00 ---1.30 0.85 0.00 0.00 1.45 0.00 0.00 0.00 0.00 0.00 0.00 6 7 e0.00 0.00 0.15 0.00 0.00 0.00 0.00 0.00 0.98 0.00 0.00 0.00 0.06 e0.00e0.00 ---0.00 0.06 8 e0.00 e0.00 e0.00 ---0.00 0.00 e0.00 e0.00 0.00 e0.00 0.01 0.00 0.01 0.37 0.00 0.00 0.02 10 \_\_\_ 0.00 e0.00 0.00 0.00 1.56 0.00 0.00 3.33 0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 11 12 \_\_\_ \_\_\_ 0.00 0.00 0.00 0.00 0.29 0.00 0.35 0.00 0.00 13 --e0.00 ---0.00 0.00 0.00 0.00 0.00 0.09 e0.00 0.00 0.00 15 e0.00 \_\_\_ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16 e0.00 e0.00 ---0.00 0.00 0.00 0.00 0.59 0.95 0.00 0.00 e0.00 e0.00 e0.00 e0.00 0.00 0.00 0.00 0.00 0.43 0.00 0.15 0.00 0.00 17 18 0.00 e0.00 e0.00 0.00 0.09 0.00 1.48 0.00 0.00 0.00 0.00 19 20 e0.00 e0.00 0.00 0.00 0.00 0.09 0.01 0.00 0.00 0.00 0.00 0.00 21 e0.00 e0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 22 23 e0.00 e0.00 e0.00 0.28 0.09 0.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 24 e0.00 e0.00 0.00 0.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 25 e0.00 e0.00 0.00 0.00 0.00 0.11 0.00 0.00 0.00 0.00 0.12 0.00 26 e0.00 0.00 0.00 0.00 0.00 0.66 0.00 0.00 0.00 0.00 0.00 e0.00 e0.00 \_\_\_ 0.00 0.00 0.16 0.00 0.00 0.94 0.00 27 0.00 0.00 0 00 28 ---0.00 0.00 0.00 29 e0.00 ---0.00 0.00 ---0.00 0.00 1.60 0.04 0.01 0.00 0.00 \_\_\_ 30 e0.00 0.00 0.04 1.30 0.00 0.00 0.63 0.00 0.00 0.00 31 e0.00 \_\_\_ 0.00 1.71 \_\_\_ 0.00 0.00 0.00 0.00 3.44 6.30 4.54 TOTAL \_\_\_ 3.81 4.46 1.67 2.60 1.27 ------

e Estimated

08062000 East Fork Trinity River near Crandall, TX--Continued



#### 08062500 Trinity River near Rosser, TX

LOCATION.--Lat 32°25'35", long 96°27'46", Ellis County, Hydrologic Unit 12030105, on right bank at downstream side of right pier of bridge on State Highway 34, 2.5 mi south of Rosser, 8.5 mi downstream from East Fork Trinity River, and at mile 451.4.

DRAINAGE AREA. -- 8,147 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1924 to Sept. 1925, Oct. 1938 to current year. Monthly discharge only for some periods, published in WSP 1312

REVISED RECORDS.--WRD TX-77-1: 1942(M), drainage area. WDR TX-89-1: 1988. WDR TX-92-1: 1991.

GAGE.--Water-stage recorder. Datum of gage is 297.65 ft above NGVD of 1929. Oct. 1938 to Sept. 1994 at present site and datum 5.00 ft higher. July 25, 1924, to Sept. 30, 1925, nonrecording gage at abandoned lock and dam No. 7, 1.7 mi upstream from present site at datum 11.94 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for period from Mar. 28 to Apr. 29 and estimated daily discharges, which are poor. Since installation of gage in July 1924, at least 10% of contributing drainage area has been regulated. A levee system, constructed in 1916, extends several miles upstream and downstream from the station. The cities of Fort Worth, Dallas, and several smaller cities divert considerable water for their municipal use, of which about 60 percent is returned as wastewater effluent that sustains low flows at this site. Flow may also be affected at times by discharge from the flood-detention pools of 38 flood- water retarding structures in the drainage basin above this station. These structures control runoff from 76.7 mi<sup>2</sup> above this station.

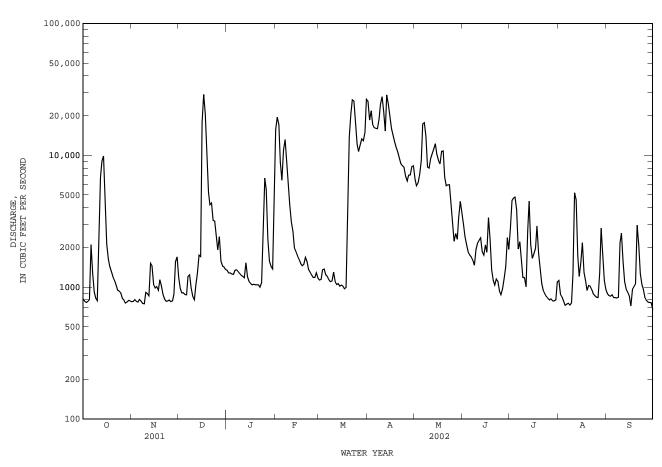
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1908 reached a stage of about 38 ft (present site and datum), from information by U.S. Army Corps of Engineers. Discharge believed to have been about the same as that of Apr. 23, 1942.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC JAN MAR MAY JUN AUG SEP e15700 e1130 e2980 e18500 e19400 e2420 e2100 e17000 e1370 e1850 e8840 e6460 e1750 e11000 e16000 e1690 e15900 e13200 e1600 e9000 e6150 e4200 e3120 e2640 e1720 e1620 e1500 e1050 e1450 e1040 e1490 e1040 e1680 e1560 2.2 2.7 e1570 e13300 ---e4470 e5530 e26600 e3600 TOTAL MEAN 950.2 млч MTN AC-FT 116900 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002h, BY WATER YEAR (WY) MEAN MAX (WY) MTN 32.8 49 5 50 4 61 0 72 7 54 6 62 6 37 1 89 1 (WY) 

## 08062500 Trinity River near Rosser, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALEN	IDAR YEAR	FOR 2002 WAT	TER YEAR	WATER YEARS	1925 - 2002h
ANNUAL TOTAL	1825931		1528261			
ANNUAL MEAN	5003		4187		3150 9702	1000
HIGHEST ANNUAL MEAN					9702 280	1992 1956
HIGHEST DAILY MEAN	35300	Feb 18	28900	Dec 17	133000	Apr 23 1942
LOWEST DAILY MEAN	703	Sep 30	673	Sep 30	32	Oct 4 1924
ANNUAL SEVEN-DAY MINIMUM	768	Sep 29	761	Aug 3	32	Oct 14 1924
MAXIMUM PEAK FLOW			40500	Apr 3	150000	Apr 23 1942
MAXIMUM PEAK STAGE			36.91	Apr 3	41.55	Apr 22 1942
ANNUAL RUNOFF (AC-FT)	3622000		3031000		2282000	
10 PERCENT EXCEEDS	15000		12800		8830	
50 PERCENT EXCEEDS	1900		1370		956	
90 PERCENT EXCEEDS	849		800		243	

Estimated See PERIOD OF RECORD paragraph. e h



### 08062500 Trinity River near Rosser, TX--Continued

### PRECIPITATION RECORDS

PERIOD OF RECORD. -- Oct. 2001 to Sept. 2002 (discontinued).

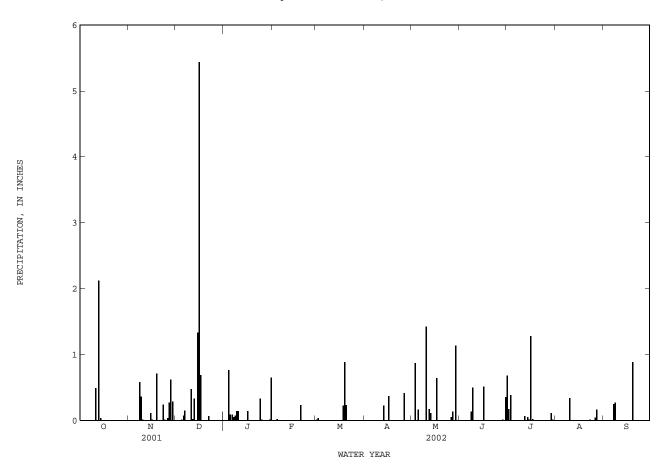
GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 297.65 ft above NGVD of 1929. REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 5.43 inches, Dec. 16.

		PRECIPI	TATION FRO	OM DCP, in		WATER YEA		2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.01	0.00 0.00 0.00 0.76 0.09	0.00 0.00 0.00 0.02	0.01 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.87 0.00 0.16	0.00 0.00 0.00 0.00 0.00	0.68 0.17 0.38 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.58 0.36 0.01	0.07 0.15 0.00 0.00 0.00	0.09 0.05 0.07 0.14 0.14	  	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 1.42	0.00 0.00 0.13 0.50 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.34	0.00 0.25 0.27 0.00 0.00
11 12 13 14 15	0.49 0.00 2.12 0.03 0.00	  0.00 0.11	0.47 0.02 0.33 0.00 1.33	  	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.22 0.00 0.00	0.00 0.17 0.11 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.06 0.00 0.05 0.01	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16 17 18 19 20	0.00 0.00 0.00 0.00	0.01 0.00 0.00 0.71 0.00	e5.43 e0.69 0.00 0.00	0.14   	0.00 0.00 0.00 0.23 0.00	0.00 0.00 e0.22 e0.88 e0.23	0.37 0.00 0.00 0.00 0.00	0.00 0.64 0.00 0.00	0.51 0.00 0.00 0.00 0.00	1.28 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.88 0.00
21 22 23 24 25	0.00 0.00 0.00 0.00	0.00 0.00 0.24 0.01 0.00	0.00 0.06 0.00 0.00	  0.33 0.01	0.00 0.00 0.00 0.00 0.00	 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.03 0.27 0.62 0.28 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.01 0.65	0.00 0.00 0.00 	0.00 0.00 0.00 0.00 0.00	0.41 0.00 0.00 0.00 0.00	0.05 0.13 0.00 1.13 0.00 0.00	0.00 0.00 0.01 0.00 0.35	0.00 0.00 0.00 0.11 0.01 0.00	0.04 0.16 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
TOTAL	2.64		8.56				1.00	4.68	1.50	2.77	0.55	1.40

e Estimated

## 08062500 Trinity River near Rosser, TX--Continued



### 08062500 Trinity River near Rosser, TX--Continued

#### WATER-OUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1954 to current year. DESIGNMENT DATA: Jan. 1968 to current year.
PESTICIDE DATA: Jan. 1968 to July 1981.
SEDIMENT DATA: Oct. 1963 to Sept. 1964, Apr. 1972 to Apr. 1975.

PERIOD OF DAILY RECORD . --

RIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Oct. 1954 to current year.
pH: Mar. 1977 to current year.
WATER TEMPERATURE: Oct. 1954 to current year.
DISSOLVED OXYGEN: Mar. 1977 to current year.

INSTRUMENTATION. -- Water-quality monitor since Mar. 1977.

REMARKS.--Records good. Interruptions in the record were caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily records of specific conductance and regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD. --

CREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 2,990 microsiemens/cm, Oct. 13, 1956; minimum, 122 microsiemens/cm, Sept. 30, 1981.
pH: Maximum, 9.9 units, July 12, 1982; minimum, 6.5 units, Apr. 12, 2002.
WATER TEMPERATURE: Maximum, 36.0°C, July 1, 1955; minimum, 1.0°C, on many days during winter months.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Feb. 18, 1996 and Jan. 11, 25, 2001; minimum, 0.0 mg/L, on several days during 1979-81.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 775 microsiemens/cm, Mar. 11; minimum, 254 microsiemens/cm, Apr. 18.

PH: Maximum, 8.6 units, on several days; minimum, 6.5 units, Apr. 12.
WATER TEMPERATURE: Maximum, 32.2°C, July 11, Aug. 4; minimum, 6.9°C, Jan. 5.
DISSOLVED OXYGEN: Maximum, 13.4 mg/L, Mar. 5; minimum, 2.8 mg/L, Oct. 12, 13.

#### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
NOV 01	1035	799	716	7.8	19.5	7.7	84	<2.0	160	61	56.2	5.70	69.0
MAR 28	0950	13500	394	7.9	15.0	9.9	99	2.3	140	32	50.0	4.06	23.8
MAY													
01 JUN	0950	6660	418	8.0	22.5	7.7	92	<2.0	130	27	46.7	4.33	27.3
27 JUL	0900	1170	700	7.8	29.0	6.4	86	2.2	170	63	57.8	6.05	67.6
17 SEP	1045	2080	610	7.6	27.5	6.8	88	3.0	160	61	55.8	5.56	53.8
03	1045	908	688	7.7	29.0	7.7	100	2.2					
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 01	AD- SORP- TION RATIO	PERCENT	SIUM, DIS- SOLVED (MG/L AS K)	BONATE WATER DIS IT FIELD MG/L AS CO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)
NOV 01 MAR 28	AD- SORP- TION RATIO (00931)	PERCENT (00932)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 01 MAR 28 MAY 01	AD- SORP- TION RATIO (00931)	PERCENT (00932)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 01 MAR 28 MAY 01 JUN 27	AD- SORP- TION RATIO (00931)	PERCENT (00932) 46 26	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 110	DIS- SOLVED (MG/L AS SO4) (00945) 83.1 46.0	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 71.7 22.6	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.0 4.0	SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)  11.6	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 01 MAR 28 MAY 01 JUN	AD- SORP- TION RATIO (00931) 2 .9	PERCENT (00932) 46 26 30	SIUM, DIS- SOLVED (MG/L AS K) (00935) 9.86 4.32 4.69	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1 <1 <1	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 126 133	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 104 110	DIS- SOLVED (MG/L AS SO4) (00945) 83.1 46.0	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 71.7 22.6	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.0 4.0	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 424 226 230	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) 11.6 1.19 2.04	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .079

## 08062500 Trinity River near Rosser, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
NOV							
01	11.7	.07	.87	.93	2.02	1.88	5.77
MAR 28	1.21	. 05	.39	.44	.12	.12	.371
Z8 MAY	1.21	.05	. 39	.44	.12	.12	.3/1
01	2.06	E.03		.54	. 26	.23	.711
JUN							
27	8.40	.06	.70	.76	1.59	1.59	4.88
JUL	6.04	D 04		7.5	0.4	0.77	2 22
17 SEP	6.94	E.04		.75	.94	.97	2.98
03	9.30	<.04		.79	1.72	1.62	4.97

Remark codes used in this report: < -- Less than E -- Estimated value

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	•
1	698	640	666	724	711	720	681	620	637			
2	716	698	711	719	711	715	634	626	629			
3	718	712	716	732	708	721	647	628	640	620	600	608
4	716	708	712	716	707	711	674	647	665	628	620	624
5	718	709	712	722	710	717	699	674	688	635	622	628
6	731	541	662	731	718	726	708	691	699	655	634	641
7	613	428	500	731	718	724	726	701	710	664	653	657
8	564	445	532	725	701	718	725	701	714	660	646	653
9	618	564	589	706	703	704	711	684	701	662	648	656
10	671	618	649	722	703	714	684	653	671	669	658	664
11	685	474	662				678	655	672	676	667	672
12	502	360	411				708	676	692	675	666	671
13	412	281	383				713	697	708	699	668	682
14	396	276	303	653	619	635	700	684	694			
15	377	278	352	689	631	664	687	585	622			
16	428	377	401	678	602	636				728	623	683
17	483	428	459	617	602	611				730	725	728
18	530	483	498	644	617	630						
19	561	530	552	676	644	662						
20	588	538	562	704	676	692						
21	604	588	599	723	704	712						
22	626	589	609	723	668	694						
23	643	623	631	668	653	658						
24	662	643	655	698	664	678						
25	669	662	667	700	693	697						
26	677	666	670	708	698	704						
27	691	677	684	719	699	710						
28	692	670	680	701	690	697						
29	703	692	699	704	674	692						
30	718	703	713	681	642	661						
31	729	712	721									
MONTH	731	276	592									

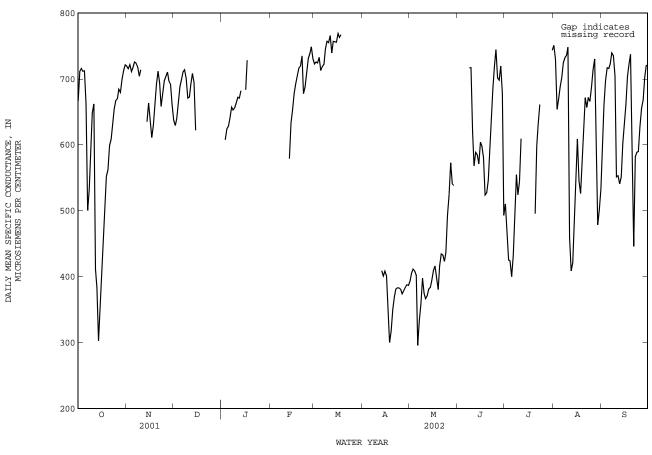
08062500 Trinity River near Rosser, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SPECIF	IC CONDUC	CIANCE	FROM DCP,	III US/CM	@ 25C,	WAIER YEAR	COCTOBER	2001 10	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				726	719	700				400	200	202
2				730	720	723 726				416	388 396	393 405
3				734	716	724				417	407	412
4				743	716	733				418	404	408
5				722	705	713				448	270	402
6				726	711	710				321	262	206
6 7				726 732	711 712	719 722				347	263 321	296 333
8				756	722	745				371	345	358
9				760	753	757				430	371	398
10				759	749	755				439	288	374
11				775	750	7.00				400	222	200
11 12				775 752	752 732	766 739				402 379	333 333	366 371
13	591	567	579	760	745	757	415	401	409	401	369	381
14	656	591	633	762	750	756	403	399	401	388	374	384
15	664	648	654	770	749	756	412	401	408	409	382	395
1.0	605		600		7.66	5.60	106	205	407	410	400	400
16	685	664	679 693	771 769	766 758	769	406 402	397 272	401 353	410 428	408 409	409 416
17 18	701 719	684 693	704	771	763	763 767	359	254	300	428	378	397
19	728	709	716				346	299	318	398	354	380
20	728	706	719				360	340	350	430	398	417
21	747	725	735				385	356	369	437	430	434
22 23	731 703	661 673	678 688				385 387	378 380	381 383	438 425	422 421	433 423
24	703	703	710				388	380	383	468	420	436
25	735	721	731				383	374	381	507	468	493
26	745	735	738				382	367	374	541	507	524
27 28	754 746	745 717	749 731				385 390	371 376	378 383	598 591	541 522	573 541
29		717	731				390	384	388	578	449	538
30							392	381	387			
31												
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX		MEAN	MAX		
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	
	MAX		MEAN		JULY			AUGUST			SEPTEMBI	ER
DAY 1 2		JUNE		MAX 566 527		MEAN 510 470	MAX 763 759		MEAN 751 730	MAX 630 685		
1 2 3		JUNE  		566 527 473	JULY 453 436 405	510 470 425	763 759 668	AUGUST 741 668 645	751 730 654	630 685 708	SEPTEMBI 571 630 685	ER 604 660 698
1 2 3 4		JUNE  	  	566 527 473 457	JULY 453 436 405 391	510 470 425 424	763 759 668 684	741 668 645 650	751 730 654 670	630 685 708 723	571 630 685 708	604 660 698 717
1 2 3		JUNE  		566 527 473	JULY 453 436 405	510 470 425	763 759 668	AUGUST 741 668 645	751 730 654	630 685 708	SEPTEMBI 571 630 685	ER 604 660 698
1 2 3 4 5		JUNE  	  	566 527 473 457 450	JULY 453 436 405 391 382	510 470 425 424 400	763 759 668 684 703	741 668 645 650 672	751 730 654 670 687	630 685 708 723 720	571 630 685 708 708	604 660 698 717 716
1 2 3 4	  	JUNE   	  	566 527 473 457	JULY 453 436 405 391	510 470 425 424	763 759 668 684	741 668 645 650	751 730 654 670	630 685 708 723	571 630 685 708	604 660 698 717
1 2 3 4 5	    721	JUNE 712	     717	566 527 473 457 450 456 549 569	JULY  453 436 405 391 382  410 456 542	510 470 425 424 400 431 498 555	763 759 668 684 703 711 730 737	741 668 645 650 672 696 711 726	751 730 654 670 687 702 724 732	630 685 708 723 720 738 742 744	571 630 685 708 708 713 736 720	604 660 698 717 716 722 740 735
1 2 3 4 5 6 7 8 9	    721	JUNE 712 689	    717 717	566 527 473 457 450 456 549 569 558	JULY  453 436 405 391 382 410 456 542 512	510 470 425 424 400 431 498 555 524	763 759 668 684 703 711 730 737 740	741 668 645 650 672 696 711 726 726	751 730 654 670 687 702 724 732 736	630 685 708 723 720 738 742 744 736	571 630 685 708 708 713 736 720 610	604 660 698 717 716 722 740 735 705
1 2 3 4 5	    721	JUNE 712	     717	566 527 473 457 450 456 549 569	JULY  453 436 405 391 382  410 456 542	510 470 425 424 400 431 498 555	763 759 668 684 703 711 730 737	741 668 645 650 672 696 711 726	751 730 654 670 687 702 724 732	630 685 708 723 720 738 742 744	571 630 685 708 708 713 736 720	604 660 698 717 716 722 740 735
1 2 3 4 5 6 7 8 9	    721 734 689	JUNE 712 689 580	    717 717 619	566 527 473 457 450 456 549 569 558	JULY  453 436 405 391 382  410 456 542 512 521	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760	741 668 645 650 672 696 711 726 726 735	751 730 654 670 687 702 724 732 736 748	630 685 708 723 720 738 742 744 736 668	571 630 685 708 708 713 736 720 610 498	604 660 698 717 716 722 740 735 705 551
1 2 3 4 5 6 7 8 9	    721	JUNE 712 689	    717 717	566 527 473 457 450 456 549 569 558	JULY  453 436 405 391 382 410 456 542 512	510 470 425 424 400 431 498 555 524	763 759 668 684 703 711 730 737 740	741 668 645 650 672 696 711 726 726	751 730 654 670 687 702 724 732 736	630 685 708 723 720 738 742 744 736	571 630 685 708 708 713 736 720 610	604 660 698 717 716 722 740 735 705
1 2 3 4 5 6 7 8 9 10	   721 734 689 580 617 619	JUNE 712 689 580 553 553 558	    717 717 619 568 589 585	566 527 473 457 450 456 549 569 558 585	JULY  453 436 405 391 382 410 456 542 512 521	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760 742 529 446	741 668 645 650 672 696 711 726 726 735 311 370 391	751 730 654 670 687 702 724 732 736 748 460 409 421	630 685 708 723 720 738 742 744 736 668 575 567 575	571 630 685 708 708 713 736 720 610 498 520 526 535	604 660 698 717 716 722 740 735 705 551
1 2 3 4 5 6 7 8 9 10 11 12 13 14	    721 734 689 580 617 619 593	JUNE 712 689 580 553 553 558 556	    717 719 568 589 585 571	566 527 473 457 450 456 549 569 558 585	JULY  453 436 405 391 382 410 456 542 512 521 585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760 742 529 446 518	741 668 645 650 672 696 711 726 726 735 311 370 391 446	751 730 654 670 687 702 724 732 736 748 460 409 421 480	630 685 708 723 720 738 742 744 736 668 575 567 575 617	571 630 685 708 708 713 736 720 610 498 520 526 535 575	604 660 698 717 716 722 740 735 551 553 541 551 603
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	   721 734 689 580 617 619 593 618	JUNE 712 689 580 553 558 556 589	  717 717 619 568 589 585 571 604	566 527 473 457 450 456 549 569 558 585	JULY  453 436 405 391 382 410 456 542 512 521 585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652	571 630 685 708 708 736 720 610 498 520 526 535 575 616	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	   721 734 689 580 617 619 593 616 641 544	JUNE 712 689 580 553 558 556 589 594 530 489	   717 717 619 568 589 585 571 604	566 527 473 457 450 456 549 558 585 622 	JULY  453 436 405 391 382  410 456 542 512 521  585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550	741 668 645 650 672 696 711 726 735 311 370 391 446 518	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730	SEPTEMBI 571 630 685 708 708 736 720 610 498 520 526 535 575 616 652 681 712	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631 660 704 723
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	    721 734 689 580 617 619 593 618 616 641 544 541	JUNE 712 689 580 553 558 556 589 594 530 489 524	   717 717 619 568 589 585 571 604 598 581 527	566 527 473 457 450 456 549 569 558 585 622 	JULY  453 436 405 391 382 410 456 542 512 521 585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 760 742 529 446 518 616	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744	SEPTEMBI 571 630 685 708 708 713 736 720 610 498 520 526 535 575 616 652 681 712 730	604 6608 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	   721 734 689 580 617 619 593 616 641 544	JUNE 712 689 580 553 558 556 589 594 530 489	   717 717 619 568 589 585 571 604	566 527 473 457 450 456 549 558 585 622 	JULY  453 436 405 391 382  410 456 542 512 521  585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550	741 668 645 650 672 696 711 726 735 311 370 391 446 518	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730	SEPTEMBI 571 630 685 708 708 736 720 610 498 520 526 535 575 616 652 681 712	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631 660 704 723
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	   721 734 689 580 617 619 593 618 616 641 544 541 569	JUNE 712 689 580 553 558 556 589 594 530 489 524 527	   717 717 619 568 589 585 571 604 598 581 524 527 546	566 527 473 457 450 456 549 569 558 622    571	JULY  453 436 405 391 382  410 456 542 512 521  585 411	510 470 425 424 400 431 498 555 524 544 609   495	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638	741 668 645 650 672 696 711 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526 568 624	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747	SEPTEMBI 571 630 685 708 708 736 720 610 498 520 526 535 575 616 652 681 712 730 434	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631 600 704 723 737 592
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	    721 734 689 580 617 619 593 618 616 641 544 541	JUNE 712 689 580 553 558 556 589 594 530 489 524	   717 717 619 568 589 585 571 604 598 581 527	566 527 473 457 450 456 549 569 558 585 622 	JULY  453 436 405 391 382 410 456 542 512 521 585	510 470 425 424 400 431 498 555 524 544	763 759 668 684 703 711 730 760 742 529 446 518 616	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744	SEPTEMBI 571 630 685 708 708 713 736 720 610 498 520 526 535 575 616 652 681 712 730	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	   721 734 689 580 617 619 593 618 616 641 544 541 545 608 664 704	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664	   717 619 568 589 585 571 604 598 524 527 546 590 638	566 527 473 457 450 456 549 569 558 585 622    571	JULY  453 436 405 391 382 410 456 542 512 521 585 411 571	510 470 425 424 400 431 498 555 524 544 609   495	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638 693 669 675	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526 526 624	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747	SEPTEMBI 571 630 685 708 708 736 720 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631 660 704 723 737 592 446 589
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	    721 734 689 580 617 619 593 618 616 641 541 569 608 668 6704 704	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704	   717 717 619 568 589 585 571 604 598 581 527 546 590 634 687 721	566 527 473 457 450 456 549 558 585 622   571 618 646 668	JULY  453 436 405 391 382 410 456 542 512 521 585 411 571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661	763 759 668 684 703 711 730 737 740 760 742 529 446 577 550 638 693 669 675 678	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 734 736 748 460 409 421 480 549 609 545 526 624 671 657 672 666	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747	SEPTEMBI  571 630 685 708 708 713 736 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571 574	604 6604 6608 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 582 590
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	   721 734 689 580 617 619 593 618 616 641 544 541 545 608 664 704	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664	   717 619 568 589 585 571 604 598 524 527 546 590 638	566 527 473 457 450 456 549 569 558 585 622   571 618 646 668	JULY  453 436 405 391 382  410 456 542 521  585 411  571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638 693 669 675	741 668 645 650 672 696 711 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 545 526 568 624 671 657 672	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747	SEPTEMBI 571 630 685 708 708 736 720 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571	604 660 698 717 716 722 740 735 705 551 553 541 551 603 631 660 704 723 737 592 446 589
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	   721 734 689 580 617 619 593 618 616 641 544 541 569 608 664 704 741 748	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704 741	   717 619 568 589 585 571 604 598 581 524 527 546 590 634 687 721 745	566 527 473 457 450 456 549 558 585 622   571 618 646 668	JULY  453 436 405 391 382 410 456 542 512 521 585 411 571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661	763 759 668 684 703 711 730 760 742 529 446 518 616 646 577 550 605 638 693 669 675 678 702	741 668 645 650 672 696 711 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 545 526 568 624 671 657 672 666 687	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747 530 611 617 600 646	\$\$\text{SEPTEMBI}\$\$ \$711 630 685 708 708 713 736 720 610 498 \$\$526 535 575 616 652 681 712 730 434 410 530 571 574 600	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 589 590 628
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	    721 734 689 580 617 619 593 618 616 641 541 569 608 668 6704 704	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704	   717 717 619 568 589 585 571 604 598 581 527 546 590 634 687 721	566 527 473 457 450 456 549 558 585 622   571 618 646 668 	JULY  453 436 405 391 382  410 456 542 521  585 411  571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 737 740 760 742 529 446 577 550 638 693 669 675 678	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518 564 515 505 524 605	751 730 654 670 687 702 734 736 748 460 409 421 480 549 609 545 526 624 671 657 672 666	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 744 747	SEPTEMBI  571 630 685 708 708 713 736 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571 574	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 582 589 628
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	   721 734 689 580 617 619 593 618 616 641 544 541 569 608 664 704 741 748 744 710 738	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704 741 684 694 708	   717 717 619 568 589 585 571 604 598 581 524 527 546 590 634 687 721 745 702 698 719	566 527 473 457 450 456 549 558 585 622   571 618 646 668 	JULY  453 436 405 391 382  410 456 542 521  585 411  571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638 693 669 675 678 702 722 754 754	741 668 645 645 672 696 711 726 735 311 370 391 446 518 564 515 505 524 605 637 661 667 661 672	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 545 526 568 624 671 672 666 687 714 730 644	630 685 708 723 720 738 742 744 736 668 575 567 575 617 632 681 714 730 744 747 600 646 670 646	SEPTEMBI 571 630 685 708 708 713 736 720 610 498 526 535 575 616 652 681 712 730 434 410 530 571 574 600 644 661 689	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 589 590 628 666 668 668
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	    721 734 689 580 617 619 593 618 616 641 541 569 608 664 741 748 744 710 738 716	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704 741 684 694 708 581	   717 717 619 568 589 585 571 604 598 581 524 527 546 590 634 687 721 745	566 527 473 457 450 456 549 558 585 622   571 618 646 668 668	JULY  453 436 405 391 382 410 456 542 512 521  585 411  571 618 646 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 760 742 529 446 577 550 638 693 669 675 678 702 722 754 512	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518 564 515 505 524 605 637 661 667 661 678	751 730 654 670 687 702 724 736 748 460 409 421 480 549 609 545 526 658 624 671 657 672 666 687 714 730	630 685 708 723 720 738 742 744 736 668 575 567 617 652 681 714 730 744 747 530 611 617 600 646	SEPTEMBI  571 630 685 708 708 713 736 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571 574 600 644 661 689 709	604 6604 6608 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 582 582 582 582 582 668 703 720
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	   721 734 689 580 617 619 593 618 616 641 544 544 541 569 608 664 704 748 748 710 738 716 581	JUNE 712 689 580 553 553 558 556 589 594 530 489 524 527 569 608 664 704 741 684 694 708 581 433	  717 717 619 568 589 585 571 604 598 581 524 524 524 524 524 524 721 745	566 527 473 457 450 456 549 569 558 585 622   571 618 646 668 	JULY  453 436 405 391 382 410 456 542 512 521  585 411  571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638 693 669 675 678 702 722 754 754 754 512 515	741 668 645 650 672 696 711 726 735 311 370 391 446 518 564 515 505 637 651 667 661 678	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526 667 672 666 687 714 730 644 479 501	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 611 617 600 646 670 689 710 726 728	SEPTEMBI  571 630 685 708 708 713 736 720 610 498 520 526 5375 616 652 681 712 730 434 410 530 571 574 600 644 661 689 709 717	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 737 592 446 582 589 590 628
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	    721 734 689 580 617 619 593 618 616 641 541 569 608 664 741 748 744 710 738 716	JUNE 712 689 580 553 558 556 589 594 530 489 524 527 569 608 664 704 741 684 694 708 581	   717 717 619 568 589 585 571 604 598 581 524 527 546 590 634 687 721 745	566 527 473 457 450 456 549 558 585 622   571 618 646 668 668	JULY  453 436 405 391 382 410 456 542 512 521  585 411  571 618 646 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 760 742 529 446 577 550 638 693 669 675 678 702 722 754 512	741 668 645 650 672 696 711 726 726 735 311 370 391 446 518 564 515 505 524 605 637 661 667 661 678	751 730 654 670 687 702 724 736 748 460 409 421 480 549 609 545 526 658 624 671 657 672 666 687 714 730	630 685 708 723 720 738 742 744 736 668 575 567 617 652 681 714 730 744 747 530 611 617 600 646	SEPTEMBI  571 630 685 708 708 713 736 610 498 520 526 535 575 616 652 681 712 730 434 410 530 571 574 600 644 661 689 709	604 6604 6608 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 592 446 582 582 582 582 582 582 668 703 720
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	   721 734 689 580 617 619 593 618 616 641 544 544 541 569 608 664 704 748 748 710 738 716 581	JUNE 712 689 580 553 553 558 556 589 594 530 489 524 527 569 608 664 704 741 684 694 708 581 433	  717 717 619 568 589 585 571 604 598 581 524 524 524 524 524 524 721 745	566 527 473 457 450 456 549 569 558 585 622   571 618 646 668 	JULY  453 436 405 391 382 410 456 542 512 521  585 411  571 618 646	510 470 425 424 400 431 498 555 524 544 609   495 598 632 661 	763 759 668 684 703 711 730 737 740 760 742 529 446 518 616 646 577 550 605 638 693 669 675 678 702 722 754 754 754 512 515	741 668 645 650 672 696 711 726 735 311 370 391 446 518 564 515 505 637 651 667 661 678	751 730 654 670 687 702 724 732 736 748 460 409 421 480 549 609 545 526 667 672 666 687 714 730 644 479 501	630 685 708 723 720 738 742 744 736 668 575 567 575 617 652 681 714 730 611 617 600 646 670 689 710 726 728	SEPTEMBI  571 630 685 708 708 713 736 720 610 498 520 526 5375 616 652 681 712 730 434 410 530 571 574 600 644 661 689 709 717	604 660 698 717 716 722 740 735 551 553 541 551 603 631 660 704 723 737 737 592 446 582 589 590 628

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08062500 Trinity River near Rosser, TX--Continued



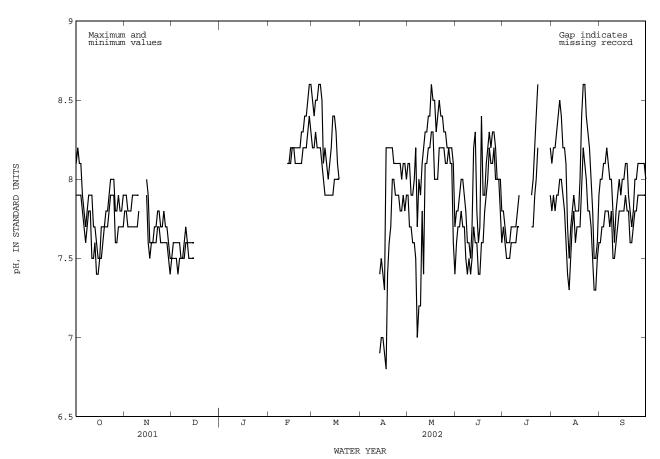
PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCT	OBER	NOVEM	IBER	DECEM	IBER	JANU	JARY	FEBR	UARY	MAI	RCH
1 2 3 4 5	8.1 8.2 8.1 8.1 7.9	7.9 7.9 7.9 7.9 7.8	7.9 7.9 7.8 7.8 7.8	7.8 7.8 7.7 7.7	7.5 7.6 7.6 7.6 7.6	7.5 7.5 7.5 7.5 7.4	  		  		8.5 8.4 8.5 8.5 8.6	8.2 8.2 8.3 8.2 8.2
6 7 8 9 10	7.8 7.7 7.8 7.9 7.9	7.7 7.6 7.7 7.8 7.8	7.9 7.9 7.9 7.9 7.9	7.7 7.7 7.7 7.7 7.8	7.6 7.5 7.5 7.6 7.7	7.5 7.5 7.5 7.5 7.6	  		  	  	8.6 8.5 8.1 8.2 8.1	8.2 8.1 8.0 7.9
11 12 13 14 15	7.9 7.7 7.7 7.6 7.5	7.5 7.5 7.6 7.4 7.4	   8.0	   7.9	7.6 7.6 7.6 7.6 7.6	7.6 7.5 7.5 7.5 7.5	  	  	8.1 8.1 8.2	8.1 8.1 8.1	8.0 8.1 8.2 8.4 8.4	7.9 7.9 7.9 7.9 8.0
16 17 18 19 20	7.5 7.7 7.7 7.7 7.8	7.5 7.5 7.6 7.7 7.7	7.9 7.6 7.6 7.6 7.7	7.6 7.5 7.6 7.6	  	  	  		8.2 8.2 8.2 8.2 8.2	8.2 8.2 8.1 8.1	8.3 8.1 8.0 	8.0 8.0 8.0
21 22 23 24 25	7.8 7.9 8.0 8.0	7.7 7.8 7.9 7.9 7.9	7.7 7.8 7.8 7.7 7.7	7.6 7.7 7.7 7.6 7.6	  	  	  		8.2 8.3 8.3 8.4 8.4	8.1 8.1 8.2 8.2 8.2	  	  
26 27 28 29 30 31	7.8 7.8 7.9 7.8 7.8 7.9	7.6 7.6 7.7 7.7 7.7	7.8 7.7 7.7 7.6 7.5	7.6 7.6 7.5 7.4	   	  	   	  	8.5 8.6 8.6 	8.3 8.4 8.3 	   	  
MONTH	8.2	7.4										

08062500 Trinity River near Rosser, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APF	RIL	MA	Y	JUN	Œ	JUL	Y	AUGU	JST	SEPTE	MBER
1 2 3 4 5			8.1 8.1 7.9 7.9 8.0	7.9 7.7 7.7 7.6 7.6	7.8 7.8 7.9 8.0	7.6 7.7 7.7 7.8 7.7	7.8 7.7 7.6 7.6 7.6	7.7 7.6 7.5 7.5 7.5	8.1 8.2 8.2 8.3 8.4	7.8 7.9 7.8 7.9 7.9	8.0 8.0 8.1 8.1	7.6 7.7 7.7 7.8 7.8
6 7 8 9 10			8.2 7.7 8.0 7.9 8.1	7.5 7.0 7.2 7.2 7.8	7.9 7.8 7.6 7.6 7.5	7.7 7.5 7.4 7.5 7.4	7.7 7.7 7.7 7.7 7.8	7.6 7.6 7.6 7.6 7.7	8.5 8.4 8.2 8.2 8.1	8.0 8.0 7.9 7.8 7.6	8.1 8.0 8.0 7.8 7.6	7.8 7.7 7.8 7.5 7.5
11 12 13 14 15	 7.4 7.5 7.4	 6.9 7.0	8.2 8.3 8.3 8.4 8.4	7.4 8.1 8.1 8.2 8.2	7.7 8.2 8.3 7.8 7.6	7.5 7.7 7.6 7.6 7.4	7.9   	7.7   	7.7 7.5 7.7 7.8 7.9	7.4 7.3 7.5 7.7 7.8	7.8 7.9 8.0 7.9 8.0	7.6 7.7 7.8 7.8 7.8
16 17 18 19 20	7.3 8.2 8.2 8.2 8.2	6.9 6.8 7.4 7.6 7.7	8.6 8.5 8.5 8.3 8.4	8.3 8.3 8.0 8.0	7.7 8.4 7.9 7.9 8.1	7.4 7.6 7.6 7.8 7.9	  7.9 8.0	  7.7 7.7	7.8 7.8 7.8 8.0 8.4	7.6 7.7 7.7 7.7 7.9	8.0 8.1 8.1 7.9 7.8	7.8 7.9 7.8 7.8 7.6
21 22 23 24 25	8.2 8.1 8.1 8.1 8.1	8.0 8.0 7.9 7.9	8.5 8.4 8.4 8.3 8.3	8.2 8.2 8.2 8.2 8.1	8.2 8.3 8.2 8.3 8.3	8.0 8.2 8.1 8.1 8.2	8.2 8.4 8.6 	7.9 8.0 8.2	8.6 8.6 8.4 8.3	8.2 8.1 8.0 7.8 7.8	7.7 7.8 8.0 8.0	7.6 7.7 7.8 7.8 7.9
26 27 28 29 30 31	8.1 8.0 8.1 8.1 8.0	7.8 7.8 7.9 7.8 7.9	8.2 8.2 8.2 8.2 8.1 7.7	8.1 8.2 8.1 8.1 7.6 7.4	8.2 8.0 8.0 7.8	8.0 8.0 8.0 7.8 7.6	   8.2	   7.9	8.0 7.8 7.5 7.5 7.6 7.9	7.7 7.5 7.3 7.3 7.5 7.6	8.1 8.1 8.1 8.0	7.9 7.9 7.9 7.9 7.9
MONTH			8.6	7.0	8.4	7.4			8.6	7.3	8.2	7.5



TRINITY RIVER BASIN

231 08062500 Trinity River near Rosser, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

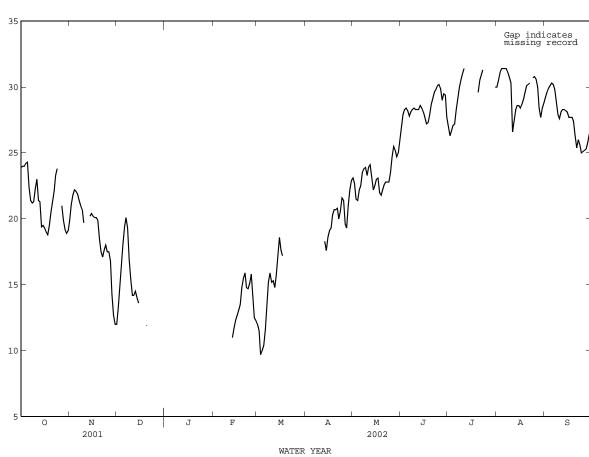
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		1	DECEMBER			JANUARY	
1 2	24.6 24.7	23.2 23.2	23.9 24.0	20.6 21.5	19.2 20.6	19.9 21.1	12.5 13.9	11.6 12.5	12.0 13.3			
3	24.5	23.3	24.0	22.3	21.2	21.8	15.3	13.9	14.8			
4 5	24.9 24.7	23.6 23.4	24.2	22.6 22.5	21.8	22.2	17.4 18.7	15.3	16.4			
			24.3		21.7	22.1		17.4	18.1			
6 7	23.4 22.2	21.9 21.1	22.4 21.4	22.4 21.8	21.5 21.0	21.9 21.4	19.8 20.3	18.7 19.8	19.4 20.1			
8	21.5	20.9	21.2	21.5	20.6	21.0	20.2	18.0	19.3			
9 10	21.7 23.0	20.9 21.6	21.3 22.3	21.1 20.1	20.1 19.5	20.7 19.7	18.0 16.1	16.1 14.7	16.9 15.4			
10	23.0	21.0	22.3	20.1	19.5	19.7	10.1	17./	13.4			
11 12	23.4 21.9	21.8 20.9	23.0 21.4				14.7 14.8	13.8	14.2 14.2			
13	21.7	19.3	21.4				14.0	13.7 14.0	14.5			
14	21.4	18.9	19.4	20.5	19.8	20.2	14.3	13.7	14.0			
15	20.0	18.9	19.5	20.6	20.2	20.4	14.2	13.3	13.6			
16	19.9	18.8	19.3	20.4	19.9	20.2						
17 18	19.3 19.2	18.6 18.6	19.0 18.8	20.4	19.8 20.0	20.1 20.1						
19	20.2	19.2	19.5	20.3	19.1	19.9						
20	21.0	20.1	20.5	19.1	17.9	18.5	12.5	11.6	11.9			
21	21.7	20.9	21.3	17.9	17.1	17.5						
22	22.7	21.5	22.1	17.4	16.7	17.1						
23 24	23.9 24.2	22.5 23.5	23.3 23.8	18.2 18.3	17.1 17.7	17.6 18.0						
25				17.8	17.0	17.5						
26				17.9	17.2	17.5						
27	21.5	20.5	21.0	17.8	15.6	16.8						
28 29	20.5 19.6	19.5 18.8	19.9 19.2	15.6 13.2	13.2 12.5	14.3 12.7						
30	19.4		18.9	12.5	11.6	12.0						
31	19.5	18.6	19.1									
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
DAY 1			MEAN	MAX 12.3	MARCH	MEAN			MEAN	MAX 23.6		MEAN 23.1
1 2		FEBRUARY		12.3 12.1	MARCH 11.8 10.4	12.0 11.5		APRIL		23.6 23.3	MAY 22.5 22.2	23.1 22.7
1 2 3		FEBRUARY		12.3 12.1 10.4	MARCH 11.8 10.4 9.4	12.0 11.5 9.7		APRIL		23.6 23.3 22.2	MAY 22.5 22.2 20.9	23.1 22.7 21.5
1 2		FEBRUARY		12.3 12.1	MARCH 11.8 10.4	12.0 11.5	 	APRIL		23.6 23.3	MAY 22.5 22.2	23.1 22.7
1 2 3 4 5	  	FEBRUARY	  	12.3 12.1 10.4 10.2 10.8	MARCH 11.8 10.4 9.4 9.8 10.0	12.0 11.5 9.7 10.0 10.4		APRIL	  	23.6 23.3 22.2 22.3 22.7	MAY 22.5 22.2 20.9 20.7 21.6	23.1 22.7 21.5 21.4 22.2
1 2 3 4 5	   	FEBRUARY		12.3 12.1 10.4 10.2 10.8	MARCH  11.8  10.4  9.4  9.8  10.0  10.7  12.6	12.0 11.5 9.7 10.0 10.4 11.6 13.7	  	APRIL		23.6 23.3 22.2 22.3 22.7 23.3 23.8	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2	23.1 22.7 21.5 21.4 22.2 22.5 23.5
1 2 3 4 5	  	FEBRUARY	   	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8	MARCH 11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2	    	APRIL	   	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8
1 2 3 4 5	   	FEBRUARY		12.3 12.1 10.4 10.2 10.8	MARCH  11.8  10.4  9.4  9.8  10.0  10.7  12.6	12.0 11.5 9.7 10.0 10.4 11.6 13.7	  	APRIL		23.6 23.3 22.2 22.3 22.7 23.3 23.8	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5
1 2 3 4 5 6 7 8 9		FEBRUARY		12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7	MARCH 11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9		APRIL		23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3
1 2 3 4 5 6 7 8 9		FEBRUARY	    	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3	MARCH  11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9	    	APRIL		23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9
1 2 3 4 5 6 7 8 9 10		FEBRUARY 10.6		12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.2 15.3 14.8 15.7	      18.7	APRIL 17.6	       18.3	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4 24.2 24.5 24.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6 23.4 23.7 22.3	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 23.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14	      11.3	FEBRUARY 10.6 11.3	      11.0	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.6 16.5	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0	     18.7	APRIL 17.6 17.3	     18.3	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4 24.2 24.5 24.0 22.6	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.6 23.5 22.6  23.4 23.7 22.3 21.8	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 23.1 23.1 23.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	     11.3 12.1 12.6	FEBRUARY 10.6 11.3 12.1	     11.0 11.7 12.3	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.3 14.8 15.7 17.0 18.6	    18.7 18.0	APRIL 17.6 17.3 18.0	     18.3 17.6 18.6	23.6 23.3 22.2 22.3 22.7 23.8 24.0 24.4 24.2 24.5 24.0 22.6 23.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 22.2 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	     11.3 12.1 12.6	FEBRUARY 10.6 11.3 12.1 12.4	     11.0 11.7 12.3	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 16.5 18.0 19.3	MARCH  11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.0 16.1 18.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	     18.7 18.0 19.4	APRIL 17.6 17.3 18.0	     18.3 17.6 18.6	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4 24.2 24.5 24.0 22.6 23.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 23.1 22.2 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	    11.3 12.1 12.6 13.1 13.4 13.9	FEBRUARY 10.6 11.3 12.1 12.4 13.0 13.3	    11.0 11.7 12.3	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.3 14.8 15.7 17.0 18.6	    18.7 18.0 19.4 19.5 20.2 20.8	APRIL 17.6 17.3 18.0 18.8 18.7 20.1	     18.3 17.6 19.1 19.3 20.3	23.6 23.3 22.2 22.3 22.7 23.8 24.0 24.4 24.4 24.5 24.5 24.0 22.6 23.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	     11.3 12.1 12.6 13.1 13.4 13.9 15.4	FEBRUARY 10.6 11.3 12.1 12.4 13.0 13.3 13.9	     11.0 11.7 12.3 12.7 13.1 13.5 14.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	    18.7 18.0 19.4 19.5 20.2 20.8 20.8	APRIL 17.6 17.3 18.0 18.8 18.7 20.1	     18.3 17.6 18.6 19.1 19.3 20.3 20.7	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	    11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 13.9 15.2	    11.0 11.7 12.3 12.7 13.5 14.8 15.5	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	    18.7 19.4 19.5 20.2 20.8 21.0	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4	    18.3 17.6 19.1 19.3 20.3 20.7 20.7	23.6 23.3 22.2 22.3 22.7 23.8 24.0 24.4 24.4 24.5 24.0 22.6 23.0 23.6 23.5 22.7 22.3 23.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.1 22.2 22.5 23.0 23.1 22.2 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	    11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0	FEBRUARY 10.6 11.3 12.1 12.4 13.0 13.3 13.9 15.2	     11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.0 16.1 18.0 17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	     18.7 18.0 19.4 19.5 20.2 20.8 21.0	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4	     18.3 17.6 18.6 19.1 19.3 20.3 20.7 20.7	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7 22.3 23.0	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 24.1 23.1 22.2 22.5 23.0 23.1 22.2 22.5 23.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	    11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0 16.3	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 13.9 15.2 15.4 14.5 14.4	    11.0 11.7 12.3 12.7 13.5 14.8 15.5	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5 	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.3 14.8 15.7 17.0 18.6 17.6 17.6	    18.7 19.4 19.5 20.2 20.8 20.8 21.0	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4	    18.3 17.6 19.1 19.3 20.3 20.7 20.7	23.6 23.3 22.2 22.3 22.7 23.8 24.0 24.4 24.4 24.5 24.5 24.0 22.6 23.0 23.6 23.5 22.7 22.3 23.8	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.1 22.2 22.5 23.0 23.1 22.2 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	     11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 13.9 15.2 15.4 14.5 14.4	     11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.0 16.1 18.0 17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	     18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2	     18.3 17.6 18.6 19.1 19.3 20.3 20.7 20.7 20.8 20.0 20.6 21.6	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7 22.3 23.0 23.3 23.4 23.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 24.1 23.1 22.2 22.5 23.0 23.1 22.2 22.5 23.6 23.8 23.9 24.1 23.1 22.2 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	    11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0 16.3	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 13.9 15.2 15.4 14.5 14.4	    11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5 15.9 14.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5 	MARCH  11.8 10.4 9.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.3 14.8 15.7 17.0 18.6 17.6 17.6	    18.7 19.4 19.5 20.2 20.8 20.8 21.0	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4	    18.3 17.6 19.1 19.3 20.3 20.7 20.7 20.8 20.0 20.6	23.6 23.3 22.2 22.3 22.7 23.8 24.0 24.4 24.4 24.5 24.5 24.0 22.6 23.0 23.6 23.5 22.7 22.3 23.8	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.1 22.2 22.5 23.0 21.8 22.2 22.6 22.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	     11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0 16.3 15.4 15.5 16.5	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 12.1 12.4 14.5 14.5 14.5 14.5 14.5 14.7	     11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5 15.9 14.8 14.7 15.1 15.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5 	MARCH  11.8 10.4 9.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.0 16.1 18.0 17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	     18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2 22.2 22.2	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2 20.3	     18.3 17.6 18.6 19.1 19.3 20.3 20.7 20.7 20.8 20.0 20.6 21.6 21.4	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7 22.3 23.0 23.3 23.4 23.3 23.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5  22.0 22.2 23.3 21.4 22.9	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.9 23.3 23.9 24.1 23.1 22.2 22.5 23.0 23.1 22.2 22.5 22.5 23.6 23.9 23.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	    11.3 12.1 12.6 13.1 13.4 13.9 16.0 16.3 15.4 15.1 15.5 16.5	FEBRUARY  10.6 11.3 12.1  12.4 13.0 13.3 12.1  14.4 14.6 15.3  12.7 12.1	    11.0 11.7 12.3 12.7 13.1 13.5 14.8 14.5 15.5 15.9 14.8 14.7 15.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5 	MARCH  11.8 10.4 9.8 10.0  10.7 12.6 14.3 15.5 14.7  14.6 11.8 17.0 17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.2 15.3 14.8 15.7 17.0 18.6 17.6 17.2	    18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2 22.2 22.2	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2 20.3	    18.3 17.6 19.1 19.3 20.3 20.7 20.7 20.8 20.0 20.6 21.6 21.4	23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4 24.5 24.5 24.5 22.6 23.0 23.6 23.5 22.7 23.3 23.4 23.4 23.4 23.4 23.4 23.4 23.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5  22.0 22.2 22.3 22.2 22.3 22.4 22.9	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2 22.5 22.5 23.6 23.7 23.9 24.1 22.2 22.5 23.5 23.5 23.5 23.5 23.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	     11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0 16.3 15.4 15.5 16.5	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 12.1 12.4 13.0 13.3 13.9 15.2 15.4 14.5 14.5 14.6 15.3	     11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5 15.9 14.8 14.7 15.1 15.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.5 14.7  17.0 17.0 17.0 17.0 17.0 17.0 17.0 1	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6 17.6 17.6 17.6 17.2	     18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2 22.2 22.2 22.2	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2 20.3 18.8 18.8 20.1 21.8		23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7 22.3 23.0 23.3 23.3 23.4 23.3 24.3	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5  22.0 22.2 23.3 21.4 22.9	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2 22.5 22.5 23.0 23.1 22.2 22.5 23.5 23.9 24.1 22.2 22.5 23.5 23.5 23.9 23.9 24.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	    11.3 12.1 12.6 13.1 13.4 13.9 16.0 16.3 15.4 15.1 15.5 16.5	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 12.1 12.4 13.0 13.3 12.1 12.1 12.4 13.0 13.3 12.1	    11.0 11.7 12.3 12.7 13.1 13.5 14.8 14.5 15.5 15.9 14.8 14.7 15.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7  14.6 14.3 15.0 16.1 18.0  17.0	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6	    18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2 22.2 22.2 22.2 22.3 20.1 21.8 20.1 21.1 21.8	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2 20.3 18.8 18.8 20.1 21.8 22.5		23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.4 24.5 22.6 23.0 23.6 23.5 22.7 23.3 23.4 23.3 23.4 23.4 23.4 23.4 23.4	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5  22.0 22.2 22.3 22.4 22.9  24.0 25.2 24.9 23.8 24.1	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.8 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2 22.5 22.5 23.6 23.9 23.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	     11.3 12.1 12.6 13.1 13.4 13.9 15.4 16.0 16.3 15.4 15.5 16.5	FEBRUARY  10.6 11.3 12.1 12.4 13.0 13.3 12.1 12.4 13.0 13.3 13.9 15.2 15.4 14.5 14.5 14.6 15.3	     11.0 11.7 12.3 12.7 13.1 13.5 14.8 15.5 15.9 14.8 14.7 15.1 15.8	12.3 12.1 10.4 10.2 10.8 12.6 14.4 15.8 16.3 15.7 15.6 15.4 16.5 18.0 19.3 17.5	MARCH  11.8 10.4 9.8 10.0 10.7 12.6 14.3 15.5 14.7 14.6 14.3 15.5 14.7  17.0 17.0 17.0 17.0 17.0 17.0 17.0 1	12.0 11.5 9.7 10.0 10.4 11.6 13.7 15.2 15.9 15.2 15.3 14.8 15.7 17.0 18.6 17.6 17.6 17.6 17.2	     18.7 18.0 19.4 19.5 20.2 20.8 21.0 21.1 20.4 21.2 22.2 22.2 22.2	APRIL 17.6 17.3 18.0 18.8 18.7 20.1 20.6 20.4 20.3 19.7 20.2 21.2 20.3 18.8 18.8 20.1 21.8		23.6 23.3 22.2 22.3 22.7 23.3 23.8 24.0 24.4 24.2 24.5 24.5 22.6 23.0 23.6 23.5 22.7 22.3 23.0 23.3 23.3 23.4 23.3 24.3	MAY  22.5 22.2 20.9 20.7 21.6  21.5 23.2 23.6 23.5 22.6  23.4 23.7 22.3 21.8 22.0  22.5 22.7 21.7 21.3 21.5  22.0 22.2 23.3 21.4 22.9	23.1 22.7 21.5 21.4 22.2 22.5 23.5 23.9 23.3 23.9 24.1 22.2 22.5 23.0 23.1 22.2 22.5 22.5 23.0 23.1 22.2 22.5 23.5 23.9 24.1 22.2 22.5 23.5 23.5 23.9 23.9 24.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23

DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

08062500 Trinity River near Rosser, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	27.7 28.3 28.6 28.7 28.5	26.5 27.6 28.0 28.1 27.7	27.0 27.9 28.3 28.4 28.2	27.4 26.7 27.4 27.6 27.8	26.6 25.9 26.2 26.5 26.6	27.0 26.3 26.7 27.1 27.2	30.5 31.3 32.0 32.2 32.0	29.6 29.8 30.3 30.6 30.7	30.0 30.5 31.1 31.4 31.4	30.0 30.5 30.5 30.7 30.9	28.5 28.7 29.1 29.5 29.7	29.2 29.6 29.9 30.1 30.3
6 7 8 9 10	28.3 28.5 28.5 28.7 28.7	27.3 27.7 28.1 28.2 27.8	27.8 28.1 28.3 28.4 28.3	29.0 30.0 30.5 31.0 31.5	27.8 28.6 29.6 30.0 30.4	28.3 29.2 30.0 30.5 31.0	31.9 31.9 31.5 31.3 31.0	30.6 30.7 30.6 29.9 29.3	31.4 31.4 31.1 30.7 30.3	30.6 30.2 29.5 28.1 28.1	29.7 29.4 28.1 27.6 26.8	30.2 29.8 28.8 27.9 27.6
11 12 13 14 15	28.7 28.7 29.0 28.8 28.6	27.9 27.9 28.3 27.9 27.6	28.3 28.3 28.6 28.4 28.1	32.2   	30.8	31.4   	29.3 28.1 28.7 28.7 29.0	25.1 26.4 27.9 28.4 28.2	26.6 27.5 28.3 28.6 28.6	28.3 28.8 28.6 28.7 28.4	27.7 28.0 27.9 27.8 27.7	28.1 28.3 28.3 28.2 28.1
16 17 18 19 20	28.1 27.8 27.8 28.4 29.4	27.5 26.5 26.7 27.4 28.2	27.7 27.2 27.3 27.9 28.7	   30.2	   29.1	   29.6	28.8 29.0 29.7 30.3 30.8	28.0 28.4 28.6 29.0 29.5	28.4 28.7 29.1 29.6 30.1	28.1 28.1 28.2 27.6 27.1	27.4 27.1 27.4 27.0 25.7	27.7 27.7 27.7 27.4 26.3
21 22 23 24 25	29.9 30.3 30.3 30.7 30.9	28.5 29.1 29.3 29.4 29.8	29.1 29.6 29.8 30.1 30.2	31.1 31.6 32.1 	29.9 30.3 30.6 	30.5 30.9 31.3 	30.8 31.0  31.4 31.5	29.7 29.7  30.1 30.2	30.2 30.3  30.7 30.8	26.0 26.2 26.1 25.5 25.8	24.7 25.8 25.3 24.6 24.4	25.4 26.0 25.6 25.0 25.1
26 27 28 29 30 31	30.7 29.4 29.9 29.8 28.8	29.4 28.7 29.1 28.8 26.9	29.9 29.0 29.5 29.4 27.7	   30.7	   29.4	   30.0	31.3 30.8 29.0 28.3 28.9 29.5	29.8 29.0 27.5 27.2 28.1 28.2	30.6 30.0 28.4 27.7 28.4 28.8	25.9 25.9 26.5 26.9 27.0	24.6 24.5 25.1 25.7 26.1	25.2 25.3 25.8 26.4 26.6
MONTH	30.9	26.5	28.5							30.9	24.4	27.6



TRINITY RIVER BASIN

233

08062500 Trinity River near Rosser, TX--Continued OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

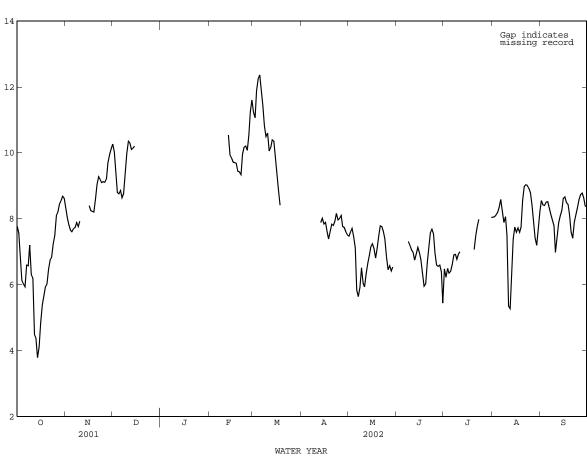
		OXYGEN DIS	SOLVED	FROM DCP,	in (MG/I	L), WATER	YEAR OCTO	BER 2001	TO SEPTI	EMBER 2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		D	ECEMBER			JANUARY	7
	0.1						10.6		10.0			
1 2	8.1 7.8	7.5 7.3	7.8 7.6	8.7 8.3	8.1 7.8	8.4 8.0	10.6 10.3	9.9 9.8	10.3 10.0			
3	7.3	6.3	6.8	8.1	7.5	7.8	9.9	9.1	9.4			
4 5	6.3 6.2	6.0 5.9	6.1 6.0	8.0 7.9	7.4 7.3	7.7 7.6	9.2 9.5	8.4 8.2	8.8 8.8			
6 7	6.1 6.5	5.8 6.1	5.9 6.6	8.2 8.1	7.4 7.2	7.7 7.7	9.3 8.8	8.5 8.4	8.9 8.6			
8	6.7	6.4	6.6	8.3	7.6	7.9	9.0	8.4	8.8			
9 10	6.9 6.6	6.5 6.0	7.2 6.3	8.0 8.1	7.6 7.5	7.8 7.9	9.7 10.3	8.9 9.4	9.4 10			
							10.6	10.0	10.4			
11 12	6.8 5.4	5.1 2.8	6.2 4.5				10.6 10.4	10.0 10.1	10.4 10.3			
13	5.5	2.8	4.4				10.2	9.8	10.1			
14 15	5.2 4.4	3.5 3.5	3.8 4.1				10.3 10.4	9.8 9.9	10.1 10.2			
1.0	- 0		4.0		0.0	0.4						
16 17	5.2 5.6	4.4 5.2	4.9 5.4	7.0 8.4	8.2 8.1	8.4 8.2						
18	5.9	5.5	5.7	8.5	8.1	8.2						
19 20	6.1 6.4	5.8 5.8	5.9 6.0	8.5 8.9	8.1 8.3	8.2 8.6						
21 22	6.7 7.0	6.2 6.6	6.5 6.8	9.2 9.5	8.8 9.1	9.0 9.3						
23	7.0	6.6	6.8	9.4	8.8	9.2						
24 25	7.5 7.7	6.9 7.4	7.2 7.5	9.5 9.4	8.8 8.9	9.1 9.1						
26 27	8.3 8.7	7.9 7.8	8.1	9.5 9.6	8.9 8.9	9.1 9.2						
28	8.8	8.1	8.4	10.0	9.3	9.7						
29 30	8.8 9.1	8.3 8.4	8.6 8.7	10.2 10.3	9.7 10.0	9.9 10.1						
31	8.9	8.3	8.6									
MONTH	9.1	2.8	6.6									
HONTH	J.±	2.0	0.0									
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2111										****		112121
		FEBRUARY			MARCH			APRIL			MAY	
1				11.7	10.7	11.2				7.6	7.4	7.5
2 3				11.8 12.6	$\frac{10.2}{11.1}$	11.1 11.9				7.7 7.8	7.5 7.4	7.6 7.7
4				12.8	11.5	12.2				7.6	7.3	7.5
5				13.4	11.6	12.4				7.7	5.9	7.1
6				12.4	11.3	11.8				6.2	5.6	5.8
7 8				12.4 11.4	10.6 10.1	11.4 10.8				5.7 6.3	5.5 5.6	5.6 5.9
9				11.5	9.4	10.5				6.7	6.3	6.5
10				11.3	9.9	10.6				6.6	5.4	6.0
11				10.5	9.6	10.1				6.1	5.8	5.9
12 13	10.7	10.1	10.5	11.2 11.4	9.4 9.4	10.2 10.4	8.1	7.8	7.9	6.6 6.8	6.0 6.4	6.3 6.6
14	10.1	9.8	9.9	11.4	9.4	10.4	8.1	7.9	8.0	7.2	6.5	6.9
15	10.0	9.7	9.8	11.1	9.0	9.9	8.1	7.6	7.8	7.4	6.9	7.1
16	9.9	9.6	9.7	10.3	8.6	9.4	8.1	7.7	7.9	7.4	7.1	7.2
17 18	9.8 9.8	9.5 9.6	9.7 9.7	9.4 8.9	8.4 8.2	8.9 8.4	8.0 7.8	7.3 7.1	7.6 7.4	7.2 7.1	7.0 6.6	7.1 6.8
19	9.6	9.2	9.4				7.9	7.3	7.6	7.3	7.0	7.1
20	9.7	9.1	9.4				8.2	7.6	7.8	7.7	7.1	7.5
21	9.5	9.2	9.3				8.3	7.4	7.8	8.0	7.5	7.8
22 23	10.4 10.5	9.5 9.7	10 10.2				8.5 8.6	7.7 7.7	7.9 8.2	7.9 7.7	7.6 7.4	7.8 7.6
24	10.7	9.8	10.2				8.5	7.6	8.0	7.6	7.3	7.4
25	10.5	9.4	10.1				8.4	7.7	8.0	7.4	6.6	6.8
26	11.3	9.7	10.5				8.6	7.7	8.1	6.6	6.2	6.5
27 28	11.8 12.5	10.5 10.7	11.2 11.6				8.0 8.1	7.6 7.5	7.8 7.7	6.8 6.9	6.3 5.9	6.6 6.4
29							7.8	7.5	7.6	6.7	6.3	6.5
30 31							7.8	7.3	7.5			
MONTH												

DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER

08062500 Trinity River near Rosser, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		P	AUGUST		S	SEPTEMBE:	R
1 2 3 4 5	  	  	  	6.8 6.6 6.5 6.7	6.1 5.7 6.3 6.0 6.1	6.5 6.2 6.5 6.3	8.8 8.7 8.8 9.1 9.3	7.4 7.5 7.5 7.5 7.5	8.0 8.1 8.1 8.2 8.3	9.1 9.1 8.9 9.2 9.4	8.1 7.7 7.7 7.9 7.7	8.6 8.4 8.4 8.5 8.5
6 7 8 9 10	7.7 7.5 7.3	7.1 7.0 6.8	7.3 7.2 7.1	6.8 7.0 7.1 7.0 7.2	6.5 6.8 6.7 6.7	6.6 6.9 6.9 6.8	9.7 8.9 8.5 8.8	7.7 7.5 7.3 7.3 7.2	8.6 8.3 7.9 8.1 7.5	9.0 8.7 8.3 8.1 7.9	7.9 7.6 7.6 7.6 6.5	8.3 8.1 8.0 7.8 7.0
11 12 13 14 15	7.2 7.1 7.1 7.4 7.4	6.8 6.5 6.7 6.9 6.4	7.0 6.8 6.9 7.1 7.0	7.4   	6.6   	7.0   	7.2 6.0 7.1 7.7 8.1	4.7 4.5 6.0 7.1 7.3	5.4 5.3 6.6 7.4 7.8	8.0 8.2 8.7 8.7 9.2	6.9 7.5 7.7 7.7 8.0	7.4 7.9 8.1 8.3 8.6
16 17 18 19 20	7.1 7.2 6.2 6.7 6.9	6.5 5.4 5.8 5.7 6.4	6.8 6.4 6.0 6.0	   7.3	   6.8	   7.1	7.9 8.0 8.0 8.4 9.6	7.3 7.2 7.3 7.3 7.7	7.6 7.7 7.6 7.7 8.6	9.0 8.9 8.9 8.5 8.6	8.3 7.9 7.7 7.7 6.9	8.7 8.5 8.4 8.1 7.6
21 22 23 24 25	7.6 7.8 8.0 7.8 7.4	6.6 7.4 7.4 7.3 6.8	7.1 7.6 7.7 7.5 7.0	8.0 8.4 8.6 	7.1 7.3 7.5 	7.5 7.8 8.0 	10.1 10.4 9.9 9.9 9.5	8.0 7.8 8.0 8.1 8.1	9.0 9.0 9.0 8.9 8.8	7.7 8.2 8.5 8.8 9.4	7.1 7.5 7.8 7.8 8.0	7.4 7.9 8.1 8.3 8.6
26 27 28 29 30 31	6.8 6.7 6.7 6.7 6.1	6.4 6.4 6.3 5.4 4.8	6.6 6.6 6.4 5.4	   8.8	   7.5	   8.0	9.2 8.4 8.1 7.7 8.1 8.9	7.8 7.3 6.5 6.5 7.0 7.7	8.4 7.9 7.4 7.2 7.7 8.2	9.7 9.3 9.1 8.9 8.9	8.0 8.3 8.2 7.9 8.1	8.7 8.8 8.6 8.4 8.4
MONTH							10.4	4.5	7.9	9.7	6.5	8.2



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## 08062700 Trinity River at Trinidad, TX

LOCATION.--Lat 32°08'05", long 96°06'20", Henderson County, Hydrologic Unit 12030105, on left bank at pumping station of Texas Power and Light Co., near southwest boundary of Trinidad, 0.5 mi downstream from St. Louis Southwestern Railway Lines bridge, 0.9 mi downstream from bridge on State Highway 31, 8.0 mi upstream from Cedar Creek, and at mile 391.2.

DRAINAGE AREA.--8,538 mi<sup>2</sup>, not including 1,007 mi<sup>2</sup> upstream from Cedar Creek Reservoir.

PERIOD OF RECORD.--Oct. 1964 to current year. Records of gage height collected in this vicinity for period Oct. 1913 to Sept. 1915 are contained in reports of U.S. Army Corps of Engineers, and records collected since Oct. 1915 are contained in reports of the National Weather Service.

Water-quality records.--Chemical data: May 1966 to June 1994. Biochemical data: May 1966 to June 1994. Pesticide data: Nov. 1977 to June 1982. Sediment data: Nov. 1977 to June 1982. Sediment data: Nov. 1977 to June 1984. Specific conductance: Sept. 1967 to Sept. 1981, May 1986 to Sept. 2000. pH: Sept. 1967 to Oct. 1969, May 1986 to Sept. 2000. Water temperature: Sept. 1967 to Sept. 1981, May 1986 to Sept. 2000. Dissolved oxygen: Sept. 1967 to Oct. 1969, May 1986 to Sept. 2000.

REVISED RECORDS. -- WDR TX-89-1: 1988. WDR TX-90-1: 1989.

GAGE.--Water-stage recorder. Datum of gage is 239.21 ft above NGVD of 1929. Prior to May 3, 1967, at site 0.9 mi upstream at datum 1.28 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1964, at least 10% of contributing drainage area has been regulated. The cities of Fort Worth, Dallas, and several smaller cities divert considerable water for their municipal use, of which about 60 percent is returned as wastewater effluent that sustains low flows at this site.

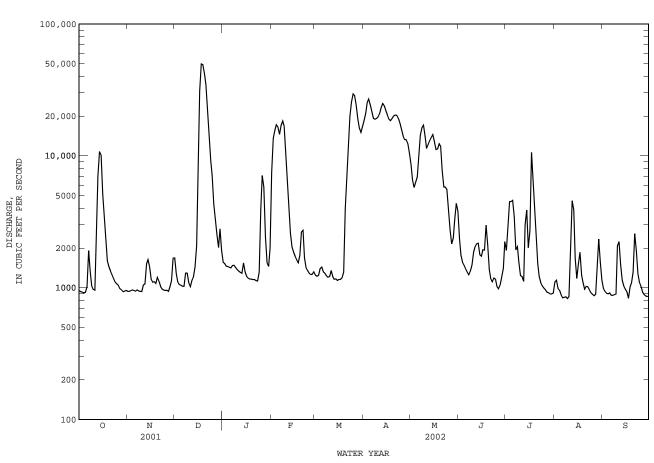
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1908, 49.8 ft Apr. 25, 1942, and 48.3 ft date unknown (present site and datum), from records of the National Weather Service.

		DISCHARGE	FROM DCP,	CUBIC F		ECOND, WA LY MEAN V		OCTOBER 2001	TO SE	PTEMBER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	952	938	1680	1560	7520	1250	18400	8580	2350	1920	1110	995
2	932	939	1270	e1520	13600	1220	20800	6610	1770	3010	1140	938
3	925	949	1110	1460	15700	1240	25300	5750	1560	4520	983	906
4	914	963	1050	1450	17200	1400	26900	6300	1480	4510	950	896
5	924	951	1040	1420	16600	1440	24400	6920	1390	4600	883	911
6	1020	940	1030	1420	14500	1320	21600	9730	1310	3460	840	877
7	1910	963	1020	1470	17100	1290	19200	14300	1250	1930	845	874
8	1320	946	1290	1480	18400	1230	18900	16300	1340	2050	852	883
9	1040	938	1290	1420	16800	1200	19200	17100	1490	1550	828	893
10	969	935	1090	1370	11400	1210	19800	14000	1860	1240	856	2080
11	955	1040	1020	1330	7070	1350	21000	11400	2040	1210	1850	2240
12	2640	1070	1130	1310	4100	1210	23300	12200	2150	1120	4560	1490
13	7040	1520	1210	1290	2610	1160	25000	13100	2180	3000	3910	1140
14	10800	1630	1440	1540	2040	1170	24000	13800	1780	3870	1670	1030
15	10200	1440	2080	1320	1860	1140	22000	14500	1730	2010	1180	978
16	5150	1160	11800	1220	1730	1150	20300	12800	1940	2710	1510	933
17	3210	1100	31000	1180	1630	1160	19000	11200	1930	10600	1860	832
18	2270	1110	49800	1160	1550	1190	18500	11300	2990	7350	1250	1010
19	1600	1080	49100	1160	1760	e1310	19200	12400	2130	4610	1090	1090
20	1440	1200	42000	1160	2650	e4000	20100	11900	1380	2810	972	1320
21	1340	1120	34600	1150	2730	e7000	e20400	7660	1180	1520	1020	2570
22	1250	1020	24600	1130	1690	e12000	e20300	5820	1110	1220	1020	1920
23	1180	977	16000	1130	1420	e20000	19300	5790	1180	1090	974	1280
24	1100	960	9270	1320	1350	e25700	17600	5570	1160	1030	916	1110
25	1070	953	7090	3950	1290	e29500	15700	3920	1020	990	892	1030
26 27 28 29 30 31	1040 987 963 932 942 954	957 938 1010 1130 1680	4330 3370 2520 2020 2800 1920	7100 5790 2430 1560 1450 2000	1260 1270 1320 	28700 24400 19200 16200 15100 16600	14100 13300 13300 12400 10500	2740 2150 2370 3290 4370 3790	981 1050 1210 1400 2230	961 924 917 898 897 909	871 892 1400 2330 1560 1140	928 886 865 860 855
TOTAL	67969	32557	310970	56250	188150	242040	583800	277660	48571	79436	42154	34620
MEAN	2193	1085	10030	1815	6720	7808	19460	8957	1619	2562	1360	1154
MAX	10800	1680	49800	7100	18400	29500	26900	17100	2990	10600	4560	2570
MIN	914	935	1020	1130	1260	1140	10500	2150	981	897	828	832
AC-FT	134800	64580	616800	111600	373200	480100	1158000	550700	96340	157600	83610	68670
STATIS	TICS OF	MONTHLY MI	EAN DATA F	OR WATER	YEARS 196	55 - 2002	, BY WATE	ER YEAR (WY)				
MEAN	2583	3855	4891	3713	5405	6921	6246	9034	6280	2454	1353	1252
MAX	11390	20160	24320	20490	20550	28360	20550	47120	26790	11800	6886	3347
(WY)	1974	1975	1992	1992	1992	2001	1997	1990	1989	1982	1982	1974
MIN	417	403	460	415	424	542	798	693	526	394	394	448
(WY)	1976	1967	1967	1967	1967	1967	1978	1971	1972	1972	1967	1972

## 08062700 Trinity River at Trinidad, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALE	IDAR YEAR	FOR 2002 WAT	CER YEAR	WATER YEARS	1965	- 2002
ANNUAL TOTAL	2703384		1964177				
ANNUAL MEAN	7407		5381		4493		
HIGHEST ANNUAL MEAN					11400		1992
LOWEST ANNUAL MEAN					854		1978
HIGHEST DAILY MEAN	49800	Dec 18	49800	Dec 18	94100	May	7 1990
LOWEST DAILY MEAN	839	Jul 31	828	Aug 9	312	Aug	9 1972
ANNUAL SEVEN-DAY MINIMUM	851	Aug 6	865	Aug 4	326	Jul	7 1972
MAXIMUM PEAK FLOW			52600	Dec 18	94500	May	7 1990
MAXIMUM PEAK STAGE			41.94	Dec 18	48.11	May	7 1990
ANNUAL RUNOFF (AC-FT)	5362000		3896000		3255000		
10 PERCENT EXCEEDS	21000		17900		12500		
50 PERCENT EXCEEDS	2220		1470		1310		
90 PERCENT EXCEEDS	934		938		520		

## e Estimated



### 08062730 New Terrell City Lake near Terrell, TX

 $\label{location.--Lat 32°43'42", long 96°10'24", Kaufman County, Hydrologic Unit 12030107, on intake structure on Muddy Cedar Creek, approximately 1.0 mi northwest of Elmo, and 5.0 mi east of Terrell.$ 

DRAINAGE AREA. -- 14.33 mi<sup>2</sup>.

PERIOD OF RECORD.--Apr. 1999 to current year.

GAGE.--Water data recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by an earthfill embankment 4,700 ft long. The dam was begun in Feb. 1955 and completed in Nov. of the same year. Deliberate impoundment began when the construction was completed but the lake did not fill until May, 1957. A 40 foot uncontrolled concrete weir spillway and chute are located near the left (east) end of the embankment. The emergency spillway is an earth trench cut through natural ground and is located at the right(west) end of the embankment. The dam was built by the city of Terrell to impound water for municipal use. Conservation pool storage is 8,580 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	514.2
Crest of spillway	508.8
Crest of emergency spillway	507.0

COOPERATION.--The capacity table was provided by the Texas Water Development Board on Apr. 15, 1999.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 11,840 acre-ft, June 10, 2002, elevation, 507.31 ft; minimum contents, 3,800 acre-ft, Apr. 30, 2000, elevation, 497.29 ft.

EXTREMES FOR CURRENT YEAR. -- Maximum contents, 11,840 acre-ft, June 10, elevation, 507.31 ft; minimum contents, 6,210 acre-ft, Oct. 11, elevation, 501.04 ft. RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

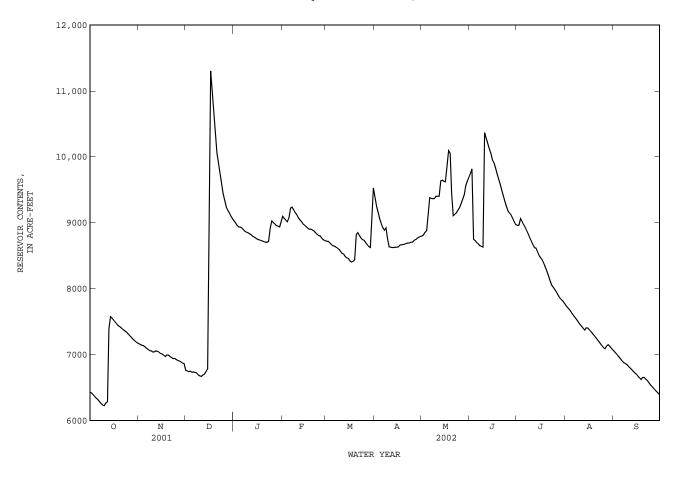
					DAI	LY MEAN V	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6430	7170	e6760	9030	9100	8720	9390	8800	9750	8960	7750	7050
2	6410	7150	e6750	8990	9070	8720	9250	8810	9820	8960	7720	7020
3	6390	7140	e6740	8960	9040	8700	9150	8850	e8750	9060	7690	6990
4	6360	7140	e6750	8940	9010	8670	9060	8880	e8730	9020	7660	6960
5	6340	7120	e6730	8930	9070	8650	8990	9160	e8700	8970	7620	6930
6	6310	7090	6740	8920	9220	8650	8930	9380	e8680	8930	7590	6900
7	6280	7080	6730	8890	9240	8630	8890	9370	e8650	8880	7560	6880
8	6260	7060	6720	8870	9200	8620	8920	9360	e8640	8830	7530	6860
9	6230	7060	6690	8860	9160	8600	8760	9370	e8630	8770	7490	6850
10	6220	7040	6680	8840	9120	8570	8640	9400	10370	8720	7460	6820
11	6260	7040	6670	8830	9080	8540	8630	9400	10290	8670	7430	6800
12	6280	7060	6690	8820	9040	8520	8620	9400	10210	8620	7400	6770
13	7390	7050	6700	8790	9020	8490	8620	9640	10130	8620	7370	6750
14	7580	7040	6740	8780	8980	8470	8630	9650	10050	8560	7410	6720
15	7550	7020	6780	8760	8960	8460	8630	9630	9960	8500	7400	6700
16	7520	7010	9560	8750	8940	8420	8630	9620	9910	8460	7380	6680
17	7490	6990	11300	8740	8920	8400	8660	9860	9830	8430	7350	6650
18	7460	6970	10920	8730	8900	8410	8670	10090	9740	8380	7320	6620
19	7440	6990	10590	8720	8900	8440	8670	10050	9660	8320	7290	6650
20	7420	6990	10290	8710	8890	8820	8680	9440	9580	8250	7260	6660
21	7400	6970	10060	8710	8870	8850	8690	9110	9500	8180	7230	6630
22	7380	6950	9880	8700	8850	8810	8690	9130	9410	8110	7200	6610
23	7360	6940	9710	8720	8830	8770	8690	9150	9320	8050	7170	6570
24	7340	6940	9560	8910	8810	8740	8700	9180	9240	8020	7130	6540
25	7320	6920	9440	9030	8800	8730	8710	9220	9180	7980	7110	6520
26	7290	6910	9330	9000	8770	8700	8730	9290	9150	7950	7090	6490
27	7270	e6900	9240	8980	8740	8670	8740	9350	9120	7910	7130	6460
28	7240	e6890	9190	8960	8730	8640	8760	9430	9070	7860	7150	6440
29	7220	e6870	9150	8950		8630	8780	9560	9010	7830	7130	6410
30	7200	e6860	9100	8940		9150	8790	9630	8970	7810	7100	6390
31	7180		9060	9010		9530		9690		7780	7070	
MEAN	6960	7010	8300	8860	8970	8670	8790	9380	9400	8430	7360	6710
MAX	7580	7170	11300	9030	9240	9530	9390	10090	10370	9060	7750	7050
MIN	6220	6860	6670	8700	8730	8400	8620	8800	8630	7780	7070	6390
(+)	502.30	e501.82	504.71	504.63	504.20	505.27	504.30	505.42	504.58	503.04	502.16	501.27
(@)	+770	-320	+2200	-50	-280	+800	-740	+900	-720	-1190	-710	-680

MAX 11300 MIN 5990 CAL YR 2001 (@) +1230 WTR YR 2002 MAX 11300 MIN 6220 (@)

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08062730 New Terrell City Lake near Terrell, TX--Continued



### 08063010 Cedar Creek Reservoir near Trinidad, TX

LOCATION.--Lat  $32^{\circ}14'35$ ", long  $96^{\circ}08'26$ ", Henderson County, Hydrologic Unit 12030107, inside pumphouse on lower level, 1,000 ft north of spillway, 5.5 mi upstream from Joe B. Hogsett Dam on Cedar Creek, and 8.0 mi northwest of Trinidad.

DRAINAGE AREA. -- 1,007 mi<sup>2</sup>.

PERIOD OF RECORD. -- Jan. 1965 to current year.

Water-quality records. --Chemical data: Oct. 1969 to Sept. 1985. Biochemical data: Oct. 1969 to Sept. 1985.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 15, 1972, at unfinished pumphouse at same site and datum. May 16, 1972 to Sept. 8, 1975, at site 0.25 mi north and upstream from pumphouse at same datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily contents, which are poor. The reservoir is formed by a rolled earthfill dam 17,539 ft long. The spillway is located on the right bank 5.5 mi upstream from the dam and discharges into the Trinity River through a cut channel 2.0 mi long. Deliberate impoundment began July 2, 1965, and the dam was completed in Feb. 1966. The spillway is 474 ft long and has eight 40- by 24-ft radial gates and two automatically operated 40- by 8.5-ft hinged gates. Low-flow releases may be made downstream through a 5.0 foot diameter conduit through the dam. The dam is the property of Tarrant Regional Water District and was built for municipal and industrial supply and for recreational purposes. Water is diverted from the reservoir for municipal and industrial uses by lakeside developments and by the cities of Arlington, Fort Worth, Mansfield, Kemp, Trinidad, and Maba. Conservation pool storage is 637,050 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	340.0
Top of radial gates	325.0
Top of automatic gates	322.5
Top of conservation pool	
Crest of spillway (automatic gates)	314.0
Crest of spillway (radial gates)	302.0
Lowest gated outlet (invert)	263.5

COOPERATION.--Records of diversions are maintained by the Tarrant Regional Water District. Capacity Table 1-C was provided by Freese and Nichols, consulting engineers for the Tarrant Regional Water District. A new capacity table, Table 2-C, provided by the Texas Water Development Board was put into effect Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 722,000 acre-ft, June 4, 1973, elevation, 323.24 ft; minimum contents since first appreciable storage in 1966, 332,900 acre-ft, Mar. 19, 1967, elevation, 309.42 ft using Table 1-C.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 686,200 acre-ft, Dec. 17, elevation, 323.45 ft; minimum contents, 587,900 acre-ft, Oct. 10, elevation, 320.40 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	596000	630300	626700	636900	639800	633900	643600	634500	637200	625800	626600	e605600
2	595200	630600	626400	637100	641200	637000	650400	635400	636400	628000	626400	e605000
3	594200	630700	626800	636400	642800	634800	649300	637000	636100	632300	625900	e604700
4	593300	630700	626600	635600	641700	632800	643900	637200	636100	633500	625100	e603900
5	594200	630100	626500	637000	643000	632200	640700	637300	636200	633800	624100	603400
6 7 8 9 10	593300 591100 589900 588800 588900	629600 628600 628100 629100 628200	626800 626900 629500 628000 627300	637300 637200 636500 636600 637000	647400 648700 648200 644100 642500	632100 631900 632200 634600 632200	637800 636200 639600 641500 640900	638200 640700 642000 641900 641900	636300 635600 634800 634100	633900 634400 633900 633300 632600	623300 622800 622600 621500 620500	602600 601800 601800 601700 601200
11	590900	628200	627600	637700	638400	631700	638900	644400	633700	631800	620000	600300
12	591200	628200	630200	637800	636600	632300	636700	646100	633400	632000	618800	599000
13	604800	627800	631700	636700	637100	631500	636300	648000	633600	632100	617200	598100
14	616000	627300	631700	637300	636800	631000	636800	644800	633300	630800	616900	597800
15	629900	627200	634200	636900	637200	632500	636500	641900	631900	629800	615800	597400
16	638600	627100	655000	636600	637100	632100	636400	639400	632800	639000	615000	596600
17	638500	626600	680300	637300	637100	632700	637600	640100	631700	645200	614300	596100
18	637000	626100	663100	637200	636500	635900	639000	639800	630300	641200	613700	594900
19	637100	627200	650300	637800	637900	639500	638400	638500	629600	639000	612600	596300
20	637400	626000	644400	636600	637600	651500	636800	637000	628800	637200	611800	597600
21	637000	625000	640300	637200	636900	656000	636800	636400	628500	636600	610700	596800
22	636800	624100	640300	637300	636800	654000	636700	635000	627800	635900	610100	596900
23	636200	623200	637700	637600	636200	648600	636200	634700	627300	635200	609700	595600
24	636500	624500	638500	639500	635700	644200	636100	634700	626400	634700	608900	594500
25	636300	623200	637800	638300	637400	643300	636600	634900	625300	634000	608200	593700
26 27 28 29 30 31	635400 634800 633500 632800 632200 630900	623300 624600 627200 626400 626100	637900 637100 638100 639500 637500 636600	638400 637300 637000 637300 637900 639500	638800 635500 634300 	639900 637200 636000 636500 637900 639700	636400 635200 635800 635700 635100	634700 634500 634100 637600 636900 637000	624600 624300 623700 623300 623000	632600 631100 629600 629300 628700 627800	607400 609200 609100 608500 e607700 e606800	593000 591600 590800 590100 589400
MEAN	617100	627200	636800	637300	639400	637300	638600	638600	631000	633400	615800	597900
MAX	638600	630700	680300	639500	648700	656000	650400	648000	637200	645200	626600	605600
MIN	588800	623200	626400	635600	634300	631000	635100	634100	623000	625800	606800	589400
(+)	321.80	321.64	321.98	322.07	321.91	322.08	321.93	321.99	321.54	321.70	e321.02	320.45
(@)	+33800	-4800	+10500	+2900	-5200	+5400	-4600	+1900	-14000	+4800	-21000	-17400

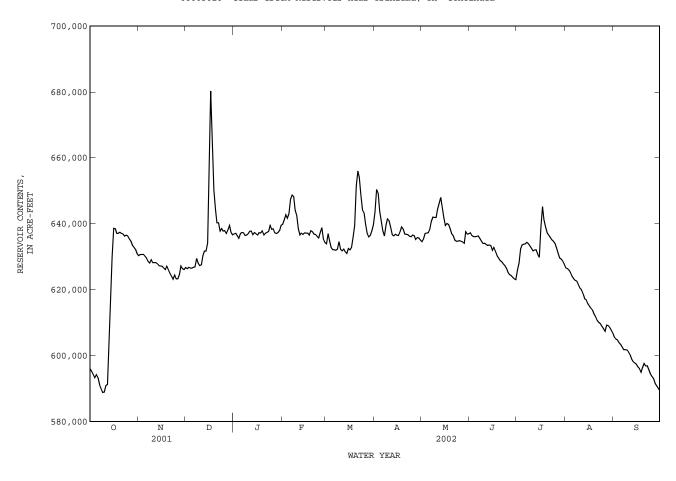
CAL YR 2001 MAX 680300 MIN 584700 (@) -16100 WTR YR 2002 MAX 680300 MIN 588800 (@) -7700

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08063010 Cedar Creek Reservoir near Trinidad, TX--Continued



### 08063045 Richland Creek near Irene, TX

LOCATION.--Lat 31°58'37", long 96°48'52", Navarro County, Hydrologic Unit 12030108, at bridge on Farm Road 744, 0.3 mi northeast of intersection of Farm Road 744 and 1946, 2.4 mi upstream of Hackberry Creek, and 3.5 mi southeast of Irene.

DRAINAGE AREA. -- 69 mi<sup>2</sup>.

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year. BIOCHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			WAILER	QUALITI L	MIN, WALL	ik IBAK OC	TODER 200	I TO DEFT	EMDER 200	2			
Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
FEB	1200	35	441	7.9	8.5	8.6	75	<2.0	220	25	83.3	1 00	7.78
13 MAY												1.89	
O1 JUL	1100	14	387	7.9	23.0	7.0	82	3.1	180		69.1	2.00	10.0
10 AUG	0945	1.0	418	7.6	26.5	7.6	95	2.6	180	28	65.1	3.03	21.6
01	1145	.04	392	7.9	30.0	5.3	70	2.1	150	16	55.9	2.90	19.1
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
FEB 13	.2	7	1.14	2	229	190	20.4	7.32	.3	5.77	250	246	44
MAY 01	.3	11	1.27	2	219	182	21.9	10.0	.3	8.94	234	235	34
JUL 10	.7	21	2.13	1	177	146	31.1	19.8	.4	9.53	235	241	44
AUG 01	.7	21		1	164	135	25.0	19.1	. 4	10.3	228	217	<10
01	. /	21	2.12	1	104	133	25.0	19.1	.4	10.3	220	217	<10
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
FEB 13 MAY	.90	.019	.92	<.04		.18	E.004	<.02	2.6	7	.08	<2	49
01 JUL		E.005	.46	<.04		.24	.009	<.04	4.7	2	.14	E2	57
10		E.004	.11	.04	.42	.47	.012	<.02	4.0	<1	.15	2	65
AUG 01		E.005	.05	.06	.33	.39	.010	<.02	4.8	2	.20	3	61
Date	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
FEB 13 MAY	<.06	<.04	<.8	.20	1.0	<10	<.08	4.6	E.01n	.5	.43	<2	<1
01	<.06	.06	<.8	.33	1.4	<10	E.06	16.4	<.01	.6	2.08	<2	<1
JUL 10	<.06	E.02	<.8	.41	2.3	<10	<.08	41.1	.01	.9	2.92	<2	<1
AUG 01	<.06	E.02	<.8	.36	1.1	<10	E.05	91.3	.03	1.0	2.47	<2	<1

## 08063045 Richland Creek near Irene, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB 13	2	1.26
MAY 01	2	.96
JUL 10	1	.68
AUG 01	4	.57

Remark codes used in this report:
<-- Less than
E -- Estimated value

Value qualifier codes used in this report:  $\ensuremath{\text{n}}$  -- Below the NDV

### 08063050 Navarro Mills Lake near Dawson, TX

LOCATION.--Lat 31°57'27", long 96°41'21", Navarro County, Hydrologic Unit 12030108, in left abutment of spillway of Navarro Mills Dam on Richland Creek, 1.7 mi upstream from bridge on State Highway 31, 3.0 mi upstream from St. Louis Southwestern Railway Lines bridge, 4.2 mi upstream from Post Oak Creek, 4.6 mi north of Dawson, and 63.9 mi upstream from mouth.

DRAINAGE AREA. -- 320 mi<sup>2</sup>.

#### WATER-CONTENT RECORDS

PERIOD OF RECORD.--Aug. 1962 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Navarro Mills Reservoir".

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 8, 1962, nonrecording gage in low-water channel at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 7,570 ft long, including a 240-foot off-channel gated spillway with six 40.0- by 29.0-foot tainter gates. From Aug. 27, 1962, to Mar. 14, 1963, lake was operated as a detention basin only. Deliberate impoundment began Mar. 15, 1963, and dam was completed in Sept. 1963. Low-flow outlet works consist of two 36-inch-diameter gate-controlled conduits. Lake was built for flood control and water conservation. Capacity table prior to Sept. 1976 is based on survey made in Feb. 1956 by U.S. Army Corps of Engineers. Capacity table after Aug. 31, 1976, is based on a sedimentation survey made in Sept. 1972. Flow is affected at times by discharge from the flood-detention pools of 51 floodwater-retarding structures with a combined detention capacity of 26,160 acre-ft. These structures control runoff from 86.9 mi<sup>2</sup> in the Richland Creek drainage basin. The dam is owned by the U.S. Army Corps of Engineers. An unknown amount of water is diverted for municipal and industrial uses. Conservation pool storage is 56,963 acre-ft. Data regarding dam are given in the following table:

	Elevation
	(feet)
Top of dam	457.0
Design flood	
Top of gates (top of flood-control storage pool)	443.0
Top of conservation pool	424.5
Crest of spillway	414.0
Lowest gated outlet (invert)	400.0

COOPERATION.--Capacity table furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 183,300 acre-ft, May 18, 1968, elevation, 440.36 ft; minimum since initial filling in May 1965, 32,490 acre-ft, Dec. 28, 1978, elevation, 418.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 115,000 acre-ft, Dec. 25, elevation, 433.44 ft; minimum contents, 45,340 acre-ft, Oct. 12, elevation, 422.07 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46320	56490	59320	96120	58070	57320	61450	58090	60690	e58630	56770	52730
2	46230	56400	59300	92560	58060	57580	61850	57940	60650	e58970	56620	52610
3	46130	56380	59280	88930	58050	57300	61890	57900	60560	e59160	56470	52460
4	46000	56330	59210	85410	58020	57250	61430	57830	60480	59140	56330	52330
5	46000	56280	59260	82110	58580	57170	60870	57800	60380	59120	56210	52190
3	10000	30200	33200	OZIIO	30300	37170	00070	37000	00300	37120	30210	32130
6	45760	56270	59240	78840	62640	57120	60540	57790	60330	59100	56060	52040
7	45680	56180	59210	75470	64470	57100	60300	57730	60230	59020	55920	51820
8	45590	56110	59430	72250	64680	57150	61220	57620	60110	58930	55730	51820
9	45520	56160	59360	69110	63730	57150	61960	57630	60020	58820	55650	51940
10	45520	56140	59300	66090	62480	57080	62310	57520	59960	58710	55610	51880
11	45570	56130	59210	63210	61050	57170	62590	57480	59860	58590	55510	51810
12	45490	56480	59430	61550	59740	57190	62700	57390	59730	58460	55380	51730
13	48800	57170	59590	60060	59050	57190	62440	57440	59620	58380	55270	51620
14	55270	57320	59640	58680	58530	57240	62220	57260	59530	58360	55130	51530
15	56390	57420	59870	58000	58330	57310	61880	57140	59390	58250	54920	51430
16	56830	58140	78420	57910	58250	57200	61530	57050	59480	58930	54820	51310
17	57130	58600	103000	57910	58220	57350	61170	57110	59360	59910	54680	51250
18	57260	58730	106800	57820	58120	57490	60800	57210	59260	59980	54540	51180
19	57280	58980	109200	57940	58320	57550	60380	57100	59120	59840	54400	51460
20	57280	59410	110700	57860	58280	58690	59920	57010	59070	59420	54250	51590
21	57220	59520	112000	57810	58180	59330	59510	56910	59120	58970	54130	51440
22	57220	59470	113100	57790	58140	59430	59070	56780	59010	58560	53980	51280
23	57250	59560	113900	57800	58020	59510	58880	56660	58910	58330	53850	51110
24	57280	59680	114500	57900	57930	59580	58680	56560	58770	58170	53730	50970
25	57050	59440	114800	57850	57830	59710	58310	56540	58640	58010	53550	50830
26	56920	59370	115000	57800	57730	59680	58230	56560	58550	57840	53410	50760
27	56870	59260	114300	57750	57500	59640	58280	56720	58570	57650	53290	50650
28	56720	59470	110900	57730	57440	59610	58230	57230	58480	57460	53180	50530
29	56650	59610	107200	57730		59590	58210	58530	58340	57280	53070	50440
30	56570	59390	103400	57700		59520	58170	60480	58310	57130	52950	50350
31	56520		99770	58000		60820		60640		56940	52810	
TOTAL	1622320	1735890	2617640	2033690	1659440	1803020	1815020	1783650	1784530	1816060	1698220	1545090
MEAN	52330	57860	84440	65600	59270	58160	60500	57540	59480	58580	54780	51500
MAX	57280	59680	115000	96120	64680	60820	62700	60640	60690	59980	56770	52730
MIN	45490	56110	59210	57700	57440	57080	58170	56540	58310	56940	52810	50350
(+)	424.41	424.97	431.46	424.70	424.59	425.24	424.73	425.21	424.76	424.49	423.66	423.16
(@)	+10120	+2870	+40380	-41770	-560	+3380	-2650	+2470	-2330	-1370	-4130	-2460
ONT 37	0.001	MARK 12720	O MITST AF	100 (0)	. 22000							

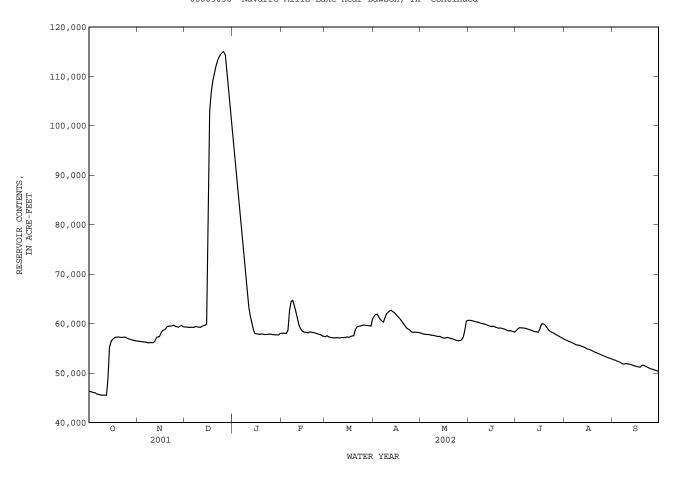
CAL YR 2001 MAX 137200 MIN 45490 (@) +23080 WTR YR 2002 MAX 115000 MIN 45490 (@) +3950

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in Contents, in acre-feet.

08063050 Navarro Mills Lake near Dawson, TX--Continued



### 08063050 Navarro Mills Lake near Dawson, TX--Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1969 to Sept. 1982, Oct. 1999 to current year. BIOCHEMICAL DATA: Oct. 1981 to Aug. 1982, Oct. 1999 to current year. PESTICIDE DATA: Aug. 2000 to Sept. 2000.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

#### 315730096412601 -- Navarro Mills Lk Site AC

				315730	096412601	Navar	ro Mills	Lk Site A	C				
Date	Time	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB 13	1426	59000	.27	1.00	274	7.9	10.0	9.9	88	E2k	<1k	110	8
FEB	1120	33000	• • •	1.00	2,1		20.0	,,,	00	22.1	-222	110	Ü
13-13	1426			10.0	 275	 7.9	10.0	10.0	 89				
13 13	1432 1439			20.0	275	7.9	10.0	10.0	89 89				
13	1446			27.0	275	7.9	10.0	10.2	91			110	12
MAY											- 41		
01 MAY	1309	58200	.43	1.00	335	8.2	25.5	7.8	98	E20k	E6k	140	11
01-01	1309												
01	1317			10.0	335	8.2	25.5	7.8	98				
01 01	1324 1331			20.0 26.0	336 336	8.1 8.0	25.0 25.0	7.5 7.1	93 88			140	14
AUG													
01 AUG	1216	56800	.24	1.00	279	7.6	29.5	4.4	59	<2k	<2k	110	11
01-01	1216												
01	1221			10.0	278	7.8	30.0	4.9	66				
01 01	1226 1230			20.0 26.0	280 280	7.6 7.6	29.5 30.0	4.0 4.6	53 62			110	10
					096412601		CAR-	Lk Site A	ALKA-				
Date	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)				SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
Date FEB 13	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
FEB 13 FEB	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 13 FEB 13-13	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 13 FEB	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 15 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 13 FEB 13-13 13 13	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 13 FEB 13-13 13	DIS- SOLVED (MG/L AS CA) (00915) 40.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 15 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01	DIS- SOLVED (MG/L AS CA) (00915) 40.5   41.3 50.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05	DIS- SOLVED (MG/L AS NA) (00930) 9.05   9.11 12.4	SODIUM AD- SORP- TION RATIO (00931) .44 .5	SODIUM PERCENT (00932)  15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  126 124 152	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 105 	DIS- SOLVED (MG/L AS SO4) (00945) 21.2   21.1 26.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47  5.67 7.14	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01	DIS- SOLVED (MG/L AS CA) (00915) 40.5   41.3 50.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05	DIS- SOLVED (MG/L AS NA) (00930) 9.05   9.11 12.4	SODIUM AD- SORP- TION RATIO (00931)  .44 .5	SODIUM PERCENT (00932) 15  -1 14 16	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46  -3.40 3.18	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  126 124 152	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 105   103 127	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47  -5.67 7.14	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01 01	DIS- SOLVED (MG/L AS CA) (00915) 40.5   41.3 50.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05	DIS- SOLVED (MG/L AS NA) (00930) 9.05   9.11 12.4	SODIUM AD- SORP- TION RATIO (00931)  .44 .5	SODIUM PERCENT (00932) 15   14 16  	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46   3.40 3.18	CAR-BONATE WATER DIS IT FIELD MG/L AS C03 (00452)  <11 2111	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  126	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  105 103 127	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47   5.67 7.14	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01 MAY 01 AUG	DIS- SOLVED (MG/L AS CA) (00915) 40.5 	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05   3.10	DIS- SOLVED (MG/L AS NA) (00930) 9.05   9.11 12.4   12.6	SODIUM AD- SORP- TION RATIO (00931)  .44 .55	SODIUM PERCENT (00932)  15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46  -3.40 3.18	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  126 124 152 152	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  105 103 127 127	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1  26.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47  -5.67 7.14   6.79	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r   9r
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 AUG 01 AUG	DIS- SOLVED (MG/L AS CA) (00915) 40.5   41.3 50.1   51.2 37.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05  3.10	DIS- SOLVED (MG/L AS NA) (00930) 9.05 	SODIUM AD- SORP- TION RATIO (00931)  .44 .55 .6	SODIUM PERCENT (00932)  15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46  -3.40 3.18  -3.52	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <11 21 1	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  126 124 152 152 116	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  105 103 127 127 95	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1  26.2 23.5	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47   5.67 7.14   6.79 8.41	RIDE, DIS- SOLVED (MG/L AS F) (00950) .3   .3 .3 .3	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r   .9r
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01 AUG 01 AUG 01 AUG 01 AUG 01	DIS- SOLVED (MG/L AS CA) (00915) 40.5 41.3 50.1 51.2 37.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05  3.10 3.09	DIS- SOLVED (MG/L AS NA) (00930) 9.05   9.11 12.4  12.6 13.1	SODIUM AD- SORP- TION RATIO (00931)  .44 .55	SODIUM PERCENT (00932)  15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46  -3.40 3.18	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 126  -124 152  152 116	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  105 103 127 127	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1  26.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47  -5.67 7.14   6.79	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r   9r
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 AUG 01 AUG	DIS- SOLVED (MG/L AS CA) (00915) 40.5   41.3 50.1   51.2 37.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.54  2.58 3.05  3.10	DIS- SOLVED (MG/L AS NA) (00930) 9.05 	SODIUM AD- SORP- TION RATIO (00931)  .44 .55 .6	SODIUM PERCENT (00932)  15	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.46  3.40 3.18  3.52 3.68	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  126 124 152 152 116	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  105 103 127 127 95	DIS- SOLVED (MG/L AS SO4) (00945) 21.2  21.1 26.1  26.2 23.5	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 6.47  -5.67 7.14  6.79 8.41	RIDE, DIS- SOLVED (MG/L AS F) (00950) .3   .3 .3 .3   .5	DIS- SOLVED (MG/L AS SIO2) (00955) 6.2   6.4 .6r   .9r

## 08063050 Navarro Mills Lake near Dawson, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

Date	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	BENZENE TOTAL (UG/L) (34030)	ETHYL- BENZENE TOTAL (UG/L) (34371)
FEB 13 FEB	157	1.17	.036	1.20	.04	.33	.38	.019	E.01	<10	E.9n		
13-13 13													
13													
13	156	1.16	.035	1.20	.04	.33	.37	.019	E.01	<10	E1.8b		
MAY 01	185	1.25	.014	1.27	<.04		.34	.005	<.02	<10	<2.0	<.2	<.2
MAY 01-01													
01													
01													
01	187	1.26	.018	1.28	<.04		.34	.007	<.04	<10	E.8n		
AUG 01 AUG	154		<.008	<.05	E.02		.27	.006	<.02	<10	45.9	<.2	<.2
01-01													
01													
01	. ==												
01	153		<.008	E.03	E.03		.30	.007	<.02	<10	51.9		
Date	TOLUENE TOTAL (UG/L)	XYLENE WATER UNFLTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	315730 2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	Navar  ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	BUTYL- ATE, WATER, DISS, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)
Date	TOTAL	WATER UNFLTRD REC	TERT- BUTYL ETHER WAT UNF REC	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC	ACETO- CHLOR, WATER FLTRD REC	ALA- CHLOR, WATER, DISS, REC,	ALPHA BHC DIS- SOLVED	ATRA- ZINE, WATER, DISS, REC	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC	FLUR- ALIN WAT FLD 0.7 U GF, REC	ATE, WATER, DISS, REC	BARYL WATER FLTRD 0.7 U GF, REC	FURAN WATER FLTRD 0.7 U GF, REC
FEB 13	TOTAL (UG/L)	WATER UNFLTRD REC (UG/L)	TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L)
FEB 13	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
FEB 13	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L)
FEB 13 FEB 13-13 13	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020
FEB 13 FEB 13-13 13 13	TOTAL (UG/L) (34010)	WATER UNFLITED REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLIRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
FEB 13 FEB 13-13 13	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020
FEB 13 FEB 13-13 13 13 13 MAY 01	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLIRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01	TOTAL (UG/L) (34010)	WATER UNFLITED REC (UG/L) (81551)  <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004    .113	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010   <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041   <.041 	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01 01	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)  <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  <.2	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   <.006	ACETO- CHLOR, WATER FLTR REC (UG/L) (49260)  <.006   .036	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004    .113	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050   <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010   <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041   <.041 	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 01 01	TOTAL (UG/L) (34010)	WATER UNFLITED REC (UG/L) (81551)  <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004    .113	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010   <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041   <.041 	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01 01	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)  <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)  <.2	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   <.006	ACETO- CHLOR, WATER FLTR REC (UG/L) (49260)  <.006   .036	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004    .113	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050   <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010   <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041   <.041 	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 AUG 01 AUG 01 AUG 01 AUG 01	TOTAL (UG/L) (34010)	WATER UNFLITAD REC (UG/L) (81551)  <.2 <.2 <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006036036006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004113019	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)  3.58 1.32 1.18	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01-01 01 01 AUG 01-01 01	TOTAL (UG/L) (34010)	WATER UNIFLIRD REC (UG/L) (81551)  <.2 <.2	TERT- BUTYL BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   <.006   <.006	ACETO-CHLOR, WATER FLTRE (UG/L) (49260)  <.006036006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004    .113   .019	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)  3.58 1.32 1.18	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 AUG 01 AUG 01 AUG 01 AUG 01	TOTAL (UG/L) (34010)	WATER UNFLITAD REC (UG/L) (81551)  <.2 <.2 <.2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006 <.006 <.006	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006036036006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004113019	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   <.005	ATRA- ZINE, WATER, DISS, REC (UG/L)(39632)  3.58 1.32 1.18	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020

## 08063050 Navarro Mills Lake near Dawson, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

Date	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)
FEB													
13 FEB													
13-13 13	<.005	<.006	<.018	<.003	E.149	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
13													
MAY													
01 MAY													
01-01 01	<.005	<.006	<.018	<.003	E.258	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
01													
AUG													
01 AUG													
01-01 01	<.005	<.006	<.018	<.003	E.220	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
01													
01													
				315730	096412601	Navar	ro Mills	Lk Site A	C				
Date	LIN- URON WATER FLIRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCORWATER DISSOLV(UG/L)(82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	Navar NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
FEB	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L)	LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)
FEB 13 FEB	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
FEB 13	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L)	LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PARA- THION, DIS- SOLVED (UG/L)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)
FEB 13 FEB 13-13 13	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
FEB 13 FBB 13-13 13 13	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003  	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011  	METON, WATER, DISS, REC (UG/L) (04037)
FEB 13 FEB 13-13 13 13	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027    <.027	LACHLOR WATER DISSOLV (UG/L) (39415) 038282	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003    <.003	PARA- THION, DIS- SOLVED (UG/L) (39542) <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011   <.011	METON, WATER, DISS, REC (UG/L) (04037)
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01-01 01	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415) 038282	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007   <.007 	P,P' DDE DISSOLV (UG/L) (34653)  <.003   <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006   <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022   <.022	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011   <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01
FEB 13 FEB 13-13 13 13 13 MAY 01 MAY 01-01 01	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027   <.027 	LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007   <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003   <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022    <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011   <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 MAY 01 01 01 01	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415) 038282	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007   <.007 	P,P' DDE DISSOLV (UG/L) (34653)  <.003   <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006   <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022   <.022	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011   <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 AUG 01 AUG 01 AUG 01 AUG 01	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027 <.027 <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415) 038282	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002 <.002 <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007   <.007   <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006   <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01 <.01 <.01 <.01
FEB 13 FEB 13-13 13 13 MAY 01 MAY 01 MAY 01 AUG 01 AUG	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035 <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027 <.027	LACHLOR WATER DISSOLV (UG/L) (39415) 038282	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 < <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002   <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003	PARA- THION, DIS- SOLVED (UG/L) (39542)  <.010 <.010 <.010	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   <.006  	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.022   <.022	WATER FLTRD 0.7 U GF, REC (UG/L) (82664) <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111 <- 0111	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 <.01 < < < <

### 08063050 Navarro Mills Lake near Dawson, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	315730096412601	Navarro	Mills	Lk Site	AC
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				315730	096412601	Navar	ro Mills	Lk Site A	C				
I	Date	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	
FI	EB												
FI	13 EB												
	13-13 13	<.010	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009	
	13												
M	13 AY												
	01												
M	AY 01-01	<.010	<.011	<.02	<.004	.011	<.02	<.034	<.02	<.005	<.002	<.009	
	01												
	01 01												
AI	JG												
ΙA	01 JG												
	01-01	<.010	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.005	<.002	<.009	
	01 01												
	01												
				315706	096420201	Navar	ro Mills	Lk Site A	R				
		Da	te	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)			
		1	3 3 3	1458 1500 1503	1.00 10.0 20.0	275 275 275	8.0 8.0 7.9	10.5 10.5 10.0	10.6 10.5 10.3	95 94 92			
		0	1	1342 1344 1346	1.00 10.0 20.0	336 336 339	8.2 8.2 8.1	25.5 25.5 25.0	8.4 8.4 7.7	105 105 96			
		0	1	1238 1240 1242	1.00 10.0 20.0	277 278 280	8.1 8.0 7.7	30.0 29.5 29.5	6.1 5.7 4.7	82 76 63			
				315710	096431301	Navar	ro Mills	Lk Site B	С				
Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
FEB													
13	1521	.30	1.00	278	8.0	10.5	10.6	95	E3k	E4k	120	13	42.0
13 13	1528 1535		10.0 24.0	278 281	8.0 7.9	10.5 9.5	10.6 10.2	95 90			120	12	42.2
MAY													
01 01	1413 1421	.27	1.00 10.0	338 338	8.2 8.2	25.5 25.0	8.2 7.8	103 97	E3k	<2k	140	10	50.5
01	1429		24.0	344	7.7	23.0	5.3	63			140	8	50.9
AUG 01	1258	.44	1.00	275	8.0	29.5	5.9	79	<2k	E2k	100	10	36.9
01	1303		10.0	279	7.8	29.0	5.1	68					

01...

1.00 10.0 23.0

.44

1303 1308

275 279 281

8.0 7.8 7.6

29.5 29.0 29.0

5.9 5.1 4.3

79 68 57

E2k ----

110

9

37.1

<2k --

13...

13... 13...

MAY 01... 01...

AUG 01...

01...

01...

1.32

1.37

1.23 1.24

1.24

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### 08063050 Navarro Mills Lake near Dawson, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315710096431301 -- Navarro Mills Lk Site BC

				313/10	090431301	Navai	IO MIIIS	TV SICE I	DC				
Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
FEB													
13	2.58	9.73	. 4	15	3.34	<1	125	104	21.4	5.83	.3	6.1	159
13 13	2.59	9.69	.4	 15	3.32	<1	 126	105	21.4	6.10	.3	6.1	160
MAY													
01 01	3.05	12.4	.5 	16 	3.22	2	154	129	26.2	6.94	.3	.5	186
01	3.04	12.3	.5	16	3.21	1	159	132	25.6	6.75	. 4	2.2	189
AUG 01	3.04	12.7	.5	20	3.55	1	114	94	23.7	8.50	. 4	5.9	151
01		10.0					116						150
01	3.01	12.8	.5	20	3.57	1	116	96	23.8	8.72	. 4	6.1	153
				315710	096431301	Navar	ro Mills	Lk Site E	3C				
	Police	NIT GE NITR DI SOL	N, GE ATE NITR S- DI VED SOL	N, GE ITE NO2+ S- DI VED SOL	N, GE NO3 AMMO S- DI VED SOL	EN, GE DNIA ORGA ES- DI JVED SOI	EN, GEN, ANIC MONI S- ORGA LVED DIS	ANIC DI S. SOI	RUS PHA S- DIS VED SOLV	S- TE, IRC - DI ED SOL	N, NES S- DI VED SOL	S- VED	
	Date	(MG AS 1 (006	N) AS	N) AS	N) AS	N) AS	N) AS	N) AS	P) AS	P) AS	FE) AS	MN)	

.061	1.38	E.02		.35	.019	<.02	<10	<2.0
.079	1.45	E.03		.35	.017	E.01	<10	E1.2n
.013	1.24	<.04		.32	E.004	<.04	<10	<2.0
.014	1.25	< .04		.32	.005	<.02	<10	E.8n
.041	1.28	<.04		.35	.006	<.04	<10	<2.0
<.008	<.05	<.04		.22	E.003	<.02	<10	E2.8
E.004	<.05	.07	.24	.31	.007	<.02	<10	36.6

## 315642096444401 -- Navarro Mills Lk Site CC

					PH			OXYGEN,	COLI-			HARD-	
		TRANS-		SPE-	WATER			DIS-	FORM,		HARD-	NESS	
		PAR-		CIFIC	WHOLE			SOLVED	FECAL,	E COLI,	NESS	NONCARB	CALCIUM
		ENCY	SAM-	CON-	FIELD	TEMPER-	OXYGEN,	(PER-	0.7	MTEC MF	TOTAL	DISSOLV	DIS-
		(SECCHI	PLING	DUCT-	(STAND-	ATURE	DIS-	CENT	UM-MF	WATER	(MG/L	FLD. AS	SOLVED
Date	Time	DISK)	DEPTH	ANCE	ARD	WATER	SOLVED	SATUR-	(COLS./	(COL/	AS	CACO3	(MG/L
		(M)	(FEET)	(US/CM)	UNITS)	(DEG C)	(MG/L)	ATION)	100 ML)	100 ML)	CACO3)	(MG/L)	AS CA)
		(00078)	(00003)	(00095)	(00400)	(00010)	(00300)	(00301)	(31625)	(31633)	(00900)	(00904)	(00915)
FEB													
13	1550	.27	1.00	288	8.0	10.0	10.8	96	E7k	E3k	120	14	43.5
13	1556		10.0	288	8.0	9.5	10.7	94					
13	1602		16.0	289	8.0	9.0	10.5	91			120	16	43.8
MAY													
01	1456	.26	1.00	344	8.2	25.5	8.3	104	E3k	<2k	140	12	51.9
01	1502		10.0	344	8.2	25.5	8.3	104					
01	1507		15.0	344	8.2	25.5	8.4	105			140	11	52.0
AUG													
01	1324	.37	1.00	281	8.3	30.0	7.2	97	<2k	E2k	110	10	37.1
01	1332		14.0	281	8.2	29.0	6.2	82			110	9	37.7

## 08063050 Navarro Mills Lake near Dawson, TX--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315642096444401 -- Navarro Mills Lk Site CC

				313012	0,0111101	Ivavai	IO MILIED	THE DICC C					
Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	CONSTI- TUENTS, DIS- SOLVED (MG/L)
FEB													
13 13	2.65	10.0	. 4	15	3.35	1	126	106	22.3	6.03	.3	6.2	166
13 13 MAY	2.66	10.1	. 4	15	3.46	<1	127	106	22.7	6.00	.3	6.4	167
01	3.07	12.2	. 4	15	3.54	2	156	131	26.2	6.82	.3	.8	188
01 01	3.07	12.1	. 4	15	3.44	2	156	131	26.1	6.86	.3	.8	189
AUG 01	3.02	12.7	.5 .5	20	3.55	1	114	96	24.2	8.81	. 4	5.7	153
01	3.04	12.9	.5	20	3.51	1	117	98	23.9	8.39	. 4	5.7	154
				315642	096444401	Navar	ro Mills	Lk Site C	C				
	Da	te	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)		
	FEB 1	3	1.79	.191	1.98	<.04	.36	.016	<.02	<10	E.9n		
	1	.3 .3	1.83	.202	2.04	 E.03	.40	.017	<.02	 <10	 E.9n		
	MAY												
		1	1.19	.012	1.20	<.04	.32	.005	<.02	<10	E1.9b 		
	0 AUG	1	1.18	.012	1.20	<.04	.30	.006	<.04	<10	E3.0b		
	0	1 1		<.008 <.008	<.05 <.05	<.04 <.04	.24	E.004 .005	<.02 <.02	<10 <10	<2.0 <2.0		
				215602	006470001	Norrow	mo Milla	Lk Site D	a				
					096470001	Navar							
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
FEB 13	1624	1.00	343	8.1	11.0	11.6	106	2.73	.262	2.99	<.04	.38	.010
MAY 01	1530	1.00	344	8.1	26.5	8.0	102	1.17	.017	1.18	<.04	.32	.007
01 AUG 01	1534 1356	3.00 1.00	344 281	8.1	26.5 29.5	7.9 6.6	101 88		<.008	<.05	<.04	.24	.006
01	1400	4.00	282	8.2	29.5	6.6	88						
				215602	006470001	Marray	mo Milla	Th Cito D	c .				

315602096470001 -- Navarro Mills Lk Site DC

Date	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB 13 MAY 01 01 AUG 01	<.02 <.02  <.02	<10 <10  <10	E1.2n E1.1n <2.0

### 08063050 Navarro Mills Lake near Dawson, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315706096463201 -- Navarro Mills Lk Site EC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
FEB 13	1645	1.00	299	8.2	11.0	11.5	105	2.22	.389	2.60	E.02	.42	.015
MAY													
01	1556	1.00	345	8.2	26.0	8.2	104	1.17	.021	1.19	<.04	.33	.006
01	1601	4.00	344	8.1	26.0	8.3	105						
AUG													
01	1420	1.00	296	8.3	30.0	7.1	96		<.008	E.02	< .04	.27	.005
01	1424	3.00	296	8.3	30.0	7.2	97						

315706096463201 -- Navarro Mills Lk Site EC

Date	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)		
FEB 13	<.02	E6	E1.5n
MAY 01	E.01	<10	<2.0
01 AUG			
01	<.02	<10	<2.0

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
k -- Counts outside acceptable range
n -- Below the NDV
r -- Value verified by rerun, same method

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#### 08063100 Richland Creek near Dawson, TX

LOCATION.--Lat 31°56′18", long 96°40′52", Navarro County, Hydrologic Unit 12030108, at downstream side of bridge on State Highway 31, 1.3 mi upstream from St. Louis Southwestern Railway Lines bridge, 1.7 mi downstream from Navarro Mills Dam, 2.5 mi upstream from Post Oak Creek, and 3.6 mi northeast of Dawson.

DRAINAGE AREA. -- 333 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 367.52 ft above NGVD of 1929. Nov. 21, 1960, to Sept. 30, 1982, water-stage recorder at same site and at 3.00 ft higher datum. Prior to Nov. 21, 1960, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since Mar. 15, 1963, at least 10% of contributing drainage area has been regulated. Flow may be slightly affected at times by discharge from the flood-detention pool of one floodwater-retarding structure. This structure controls runoff from a 1.28 mi<sup>2</sup> area below Navarro Mills Lake and above this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1961-63) prior to completion of Navarro Mills Lake, 181  ${\rm ft}^3/{\rm s}$  (131,100 acre-ft/yr)

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1961-63).--Maximum discharge,  $25,500 \text{ ft}^3/\text{s}$ , July 3, 1961, gage height, 25.50 ft, from rating curve extended above  $14,000 \text{ ft}^3/\text{s}$ ; no flow at times.

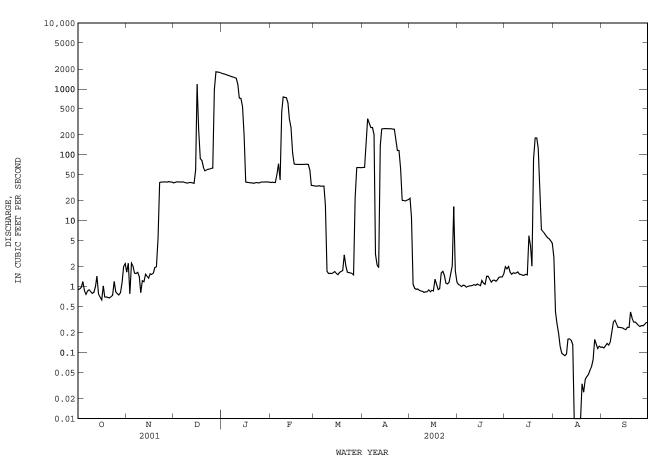
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1895, about 31 ft June 19, 1929, from information by local residents. Floods in 1946 and 1957 reached a stage of about 26 ft, from information by local residents.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DATLY MEAN VALUES DAY OCT NOV DEC JAN APR MAY JUN JUL AUG SEP 0.90 1.7 37 1720 22 1.1 2.0 2.8 0.12 38 34 64 0.12 0.92 1700 34 65 11 1.1 1.9 0.42 0.98 2.0 3 0.78 39 1670 38 34 173 1 1 1.0 0.27 0.13 352 0.19 39 1630 34 0.95 1.1 0.14 2.3 38 5 39 0.88 2.1 1600 50 34 302 0.91 1.0 1.5 0.12 0.13 6 0.76 1.6 39 1570 73 34 260 0.93 0.98 1.6 0.10 0.14 0.86 1.6 39 1550 42 34 261 0.88 1.0 0.09 0.20 8 0.90 1.6 38 1520 446 17 203 0.86 1 0 1.6 1.7 0 09 0 29 757 0.84 1.4 38 1480 1.7 0.85 1.0 0.10 0.31 3.1 10 0.79 0.82 37 1450 747 1.6 2.2 0.82 1.0 1.5 0.16 0.28 1.2 0.84 0.24 11 0.82 1160 737 1.6 2.0 0.16 612 12 1.0 1.2 38 137 0.84 1.0 0.15 0.24 724 1.6 1.5 1.4 0.78 720 13 1 5 38 348 1.6 247 0 89 1 1 1 5 0 13 0 24 1.4 1.7 0.83 0.24 37 260 15 0.70 1.3 59 196 108 1.6 250 0.88 1.0 1.5 0.00 0.23 1.6 1180 72 250 0.86 1.2 5.9 0.0 0.22 0.63 39 1.0 1.5 239 38 72 1.6 250 1.3 1.1 4.2 0.0 0.24 0.70 18 1.6 88 38 72 1.7 249 1.1 1.1 2.0 0.0 0.24 19 0.70 2.0 72 1.8 0.90 87 0.03 0.41 20 0.69 2.0 65 38 72 3.1 247 0.93 1.4 181 0.03 0.33 0.68 21 5.4 57 37 72 2.1 246 1.6 1.3 181 0.04 0.29 0.71 0.75 1.7 1.5 2.2 38 59 38 72 1.7 175 1.2 127 0.04 0.29 72 0.27 23 39 61 1.3 38 1.6 116 31 0.05 1.2 39 72 1.6 117 1.1 1.3 0.05 0.26 61 38 25 0.83 39 62 38 72 1.6 62 1.1 1.2 6.9 0.06 0.25 26 0.78 39 63 39 58 1.5 20 1.2 1.3 0.08 0.26 2.7 0.75 39 974 39 34 23 20 1.5 1.4 6.0 0.16 0.26 39 2.1 0.27 28 0.81 1830 39 64 20 1.4 34 5.5 0.14 29 1.2 39 1810 39 64 20 16 1.4 5.3 0.11 0.29 1.7 30 2.0 39 1790 39 ---64 21 1.6 5.0 0.12 0.28 31 2 2 1760 39 64 1 2 4.6 0.12 29.36 10774 5178 565.2 4632.3 80.37 35.18 690.8 7.21 TOTAL 386.90 19845 5.81 MEAN 0.947 12.90 347.5 640.2 184.9 18.23 154.4 2.593 1.173 22.28 0.187 0.240 млч 2.2 39 1830 1720 757 64 352 22 1 6 181 2.8 0.41 0.82 0.78 0.63 MTN 37 37 34 1.5 2.0 0.98 1.5 0.00 0.12 AC-FT 21370 39360 10270 1120 9190 159 1370 14 58 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002z, BY WATER YEAR (WY) MEAN 45 55 141 4 157 7 202 0 199 0 216 1 225 8 262 5 327 3 94 05 25 74 19 33 1050 1356 773 MAX 400 1366 1288 1090 971 992 980 541 269 1974 1970 1992 1980 1968 1995 1974 (WY) 1968 1975 1998 MTN 0.000 0.000 0.000 0.058 0.066 0 22 0.023 0.019 0.000 0.000 0.068 0.005 1971 1970 (WY) 1964 1964 1964 1964 1964 1964 1964 1964 1981 1997

## 08063100 Richland Creek near Dawson, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002z
ANNUAL TOTAL	83518.35	42230.13	150.0
ANNUAL MEAN HIGHEST ANNUAL MEAN	228.8	115.7	159.2 561 1968
LOWEST ANNUAL MEAN HIGHEST DAILY MEAN	2110 Mar 22	1830 Dec 28	0.20 1964 2620 Aug 4 1995
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM	0.25 Jul 12 0.27 Jul 7	0.00 Aug 14 0.01 Aug 14	0.00 Oct 1 1963 0.00 Oct 1 1963
MAXIMUM PEAK FLOW	0.27 Jui 7	2110 Dec 16	3850 Nov 24 1974
MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT)	165700	18.54 Dec 16 83760	22.85 Nov 24 1974 115300
10 PERCENT EXCEEDS	874	249	666
50 PERCENT EXCEEDS 90 PERCENT EXCEEDS	5.0 0.35	1.7 0.23	1.8 0.04

z Period of regulated streamflow.



## 08063100 Richland Creek near Dawson, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year. BIOCHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
FEB 13 MAY	1400	347	286	8.1	10.5	10.0	91	110	13	41.5	2.57	9.24	. 4
01 AUG	1345	24	346	8.2	23.0	8.6	101	150	11	53.5	3.26	13.6	.5
01	1315	2.3	311	7.6	28.5	5.2	67	110	14	39.2	3.27	14.3	.6
Date	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
FEB	15	2 24	. 3	104	102	10.1	F 74	2	F 70	160	154	26	1 00
13 MAY	15	3.34	<1	124	103	19.1	5.74	.3	5.70	160	154	26	1.20
01 AUG	16	3.39	1	163	136	28.0	10.2	.3	1.25	207	201	46	1.22
01	21	3.40	<1	118	98	25.6	9.82	. 4	6.32	168	161	<10	
Date	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
FEB 13	.029	1.23	.05	. 33	.38	.022	E.01	5.4	1	.19	4	39	<.06
MAY 01	.016	1.24	<.04		.40	.010	<.04	5.3	4	.21	3	56	<.06
AUG													
01	E.004	.05	E.03		.35	.009	<.02	5.8	2	.29	7	83	<.06
Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
FEB													
FEB 13 MAY	<.04	<.8	.13	1.3	E8	<.08	5.8	.04	. 4	.99	<2	<1	2
13	<.04 <.04	<.8 <.8	.13	1.3	E8 <10	<.08 E.07	5.8 3.6	.04	.4	.99 2.12	<2 <2	<1 <1	2

Date	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB 13	.70
MAY 01 AUG	.90
01	.69

Remark codes used in this report: < -- Less than E -- Estimated value

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### 08063600 Lake Waxahachie near Waxahachie, TX

LOCATION.--Lat 32°20'30", long 96°48'18", Ellis County, Hydrologic Unit 12030109, mounted on pump intake structure, approximately 10 mi south of Waxahachie and 22 mi northwest of Ennis.

DRAINAGE AREA. -- 30.0 mi<sup>2</sup>.

PERIOD OF RECORD.--Apr. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 3,200 ft long. The dam was completed Dec. 1, 1956. A 300 ft wide spillway has been cut through natural ground. The dam was built by the city of Waxahachie to impound water for municipal use. There was no known diversion from the lake during the current water year. Conservation pool storage is 10,799 acre-ft. Data regarding the dam is given in the following table:

	Elevation
	(feet)
Top of dam	543.0
Crest of spillway	531.0

COOPERATION.--Capacity table was furnished by the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 15,380 acre-ft, Apr. 3, 1999, elevation, 531.96 ft; minimum contents, 10,620 acre-ft, Mar. 21, 2000, elevation, 526.88 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,770 acre-ft, Mar. 30, elevation, 531.27 ft; minimum contents, 12,380 acre-ft, Dec. 11, 13, 14, 15, elevation, 529.75 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

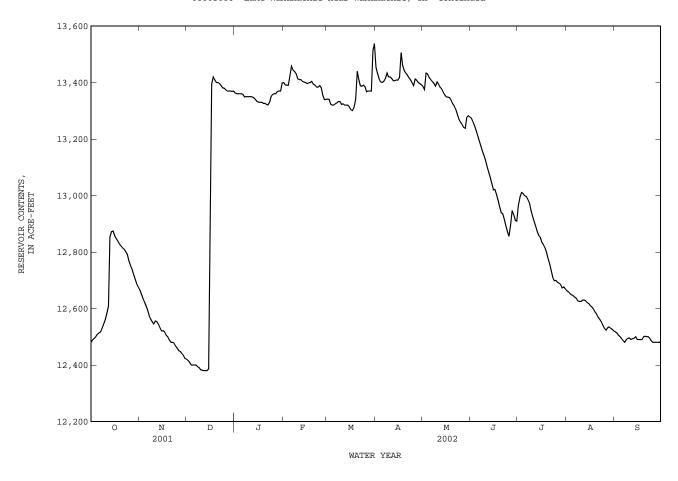
	DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12480	12670	12420	13360	13400	13340	13450	13390	13270	12960	12660	12520
2	12490	12650	12420	13360	13390	13340	13430	13380	13260	12990	12660	12510
	12500	12640	12410	13360	13390	13320	13410	13430	13250	13010	12650	12510
3 4	12500	12620	12400	13360	13390	13320	13400	13430	13230	13010	12650	12500
5	12510	12610	12400	13360	13420	13320	13400	13420	13210	13000	12650	12490
6	12510	12600	12400	13360	13460	13320	13400	13410	13190	13000	12640	12490
7	12520	12580	12400	13350	13440	13330	13410	13400	13180	12990	12640	12480
8	12530	12560	12390	13350	13440	13330	13430	13400	13160	12970	12630	12490
9	12540	12550	12390	13350	13430	13330	13420	13390	13140	12950	12630	12490
10	12560	12550	12380	13350	13410	13320	13420	13400	13120	12930	12620	12500
11	12580	12560	12380	13350	13410	13320	13410	13390	13100	12910	12630	12490
12	12610	12550	12380	13350	13410	13320	13410	13380	13080	12890	12630	12490
13	12850	12540	12380	13350	13400	13320	13410	13380	13060	12870	12630	12500
14	12870	12530	12380	13340	13400	13320	13410	13370	13040	12860	12620	12500
15	12870	12520	12390	13330	13400	13310	13410	13360	13020	12850	12620	12490
16	12860	12520	13110	13330	13400	13300	13420	13350	13020	12830	12610	12490
17	12850	12520	13390	13330	13400	13300	13510	13350	13000	12830	12600	12490
18	12840	12500	13420	13330	13400	13310	13460	13350	12980	12820	12600	12490
19	12830	12500	13410	13330	13400	13340	13440	13340	12960	12800	12590	12500
20	12820	12490	13400	13330	13390	13440	13430	13330	12940	12780	12580	12500
21	12810	12480	13400	13320	13390	13410	13430	13320	12940	12760	12570	12500
22	12810	12480	13400	13320	13380	13390	13420	13300	12920	12730	12560	12500
23	12800	12480	13390	13330	13380	13390	13410	13290	12890	12710	12550	12490
24	12790	12470	13380	13350	13390	13390	13400	13270	12870	12700	12540	12490
25	12770	12460	13380	13360	13380	13380	13390	13260	12860	12700	12530	12480
26	12750	12450	13370	13360	13350	13370	13410	13250	12890	12690	12520	12480
27	12740	12450	13370	13360	13340	13370	13410	13240	12950	12690	12530	12480
28	12720	12440	13370	13370	13340	13370	13400	13240	12930	12690	12530	12480
29	12710	12430	13370	13370		13370	13400	13280	12910	12670	12530	12480
30	12690	12420	13370	13370		13510	13390	13280	12910	12680	12530	12480
31	12680		13370	13400		13540		13280		12670	12520	
MEAN	12690	12530	12900	13350	13400	13360	13420	13340	13040	12840	12600	12490
MAX	12870	12670	13420	13400	13460	13540	13510	13430	13270	13010	12660	12520
MIN	12480	12420	12380	13320	13340	13300	13390	13240	12860	12670	12520	12480
(+)	530.18	529.85	530.87	530.90	530.84	531.04	530.89	530.78	530.41	530.17	530.02	529.96
(@)	+200	-260	+950	+30	-60	+200	-150	-110	-370	-240	-150	-40

CAL YR 2001 MAX 13420 MIN 11960 (@) +890 WTR YR 2002 MAX 13540 MIN 12380 (@) 0

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08063600 Lake Waxahachie near Waxahachie, TX--Continued



#### 08063685 Waxahachie Creek near Waxahachie, TX

LOCATION.--Lat 32°18'27", long 96°44'19", Ellis County, Hydrologic Unit 12030109, on county road bridge, over center of channel at downstream side of bridge, 1.0 mi upstream from normal pool of Bardwell Lake, and 8.4 mi southeast of Waxahachie.

DRAINAGE AREA. -- 111 mi<sup>2</sup>.

PERIOD OF RECORD.-CHEMICAL DATA: Oct. 1980 to Aug. 1982, Oct. 1985 to June 1987, and Oct. 1998 to current year.
BIOCHEMICAL DATA: Oct. 1980 to Aug. 1982, Oct. 1985 to June 1987, and Oct. 1998 to current year.

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
FEB 28	1010	(00061)	(00095)	(00400)	(00010)	(00300)	(00301)	(00310)	(00900)	(00904)	(00915)	(00925)	(00930)
APR 10	1315		517	8.0	17.8	8.3	87	3.1	200	25	78.3	2.10	24.5
24 AUG_	1100	113	554	8.2	22.0	6.8	79	<2.0	220	16	83.9	2.12	26.2
07	0845	10	1120	7.9	25.0	5.9	72	<2.0	210	42	81.3	2.65	129
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
FEB 28	2	34	5.74	3	256	215	121	27.6	.4	5.01	470	457	<10
APR 10 24 AUG	.7	20 20	3.08 3.77	2 2	215 242	179 202	51.8 53.5	16.1 15.8	.3	5.61 7.07	306 343	294 319	63 27
07	4	55	12.1	1	207	172	229	84.6	.5	7.40	713	674	<10
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
FEB 28		E.005	2.24	<.04		.24	.020	E.01		3.3	1	<.05	<2
APR 10 24	1.01 1.21	.027 .018	1.03 1.22	.07 E.03	.29	.36 .38	.019 .026	E.01 E.01		6.6 3.9	2 5	.21	E2 E2
AUG 07	5.24	.022	5.26	<.04		.56	.120	.09	.267	6.8	3	.35	3
Date	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
FEB 28	68	<.06	.04	<.8	. 45	1.5	E6	.13	37.5	<.01	15.7	1.43	<2
APR 10 24	62 66	<.06 <.1	E.03 .06	<.8 <.8	.30	1.1 1.4	<10 <10	<.08 .19	2.3 13.1	 <.01	8.9 8.1	2.40 2.12	<2 <2
AUG 07	96	<.06	.21	E.5	1.04	3.0	<10	. 26	19.5	.02	60.9	4.64	<2

# 08063685 Waxahachie Creek near Waxahachie, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB 28	<1	6	1.20
APR 10	<1	2	1.13
24	<1	7	1.14
AUG 07	<1	15	. 59

Remark codes used in this report: < -- Less than E -- Estimated value

#### 08063700 Bardwell Lake near Ennis, TX

LOCATION.--Lat 32°15′00", long 96°38′49", Ellis County, Hydrologic Unit 12030109, in intake structure of Bardwell Dam on Waxahachie Creek, 5.0 mi south of Ennis, and 5.6 mi upstream from mouth.

DRAINAGE AREA. -- 178 mi<sup>2</sup>.

#### WATER-CONTENT RECORDS

PERIOD OF RECORD.--Nov. 1965 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Bardwell Reservoir".

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Apr. 25, 1966, nonrecording gage on intake structure at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rolled earthfill dam 15,400 ft long, including a 350-ft uncontrolled off-channel concrete-gravity spillway with ogee weir section. Deliberate impoundment began Nov. 20, 1965, and dam was completed Mar. 27, 1966. Controlled low-flow outlet works consists of a 10.0-ft-diameter concrete conduit with and dam was completed Mar. 27, 1966. Controlled low-flow outlet works consists of a 10.0-ft-diameter concrete conduit with two 5.0- by 10.0-ft sluice gates. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and water conservation. Capacity table is based on a 1999 TWDB survey. Runoff from 81.4 mi above Bardwell Lake is modified by Lake Waxahachie (station 08063600, conservation pool storage 10,799 acre-ft). The city of Waxahachie diverts water from Lake Waxahachie and returns an unknown amount of effluent to Waxahachie Creek. Inflow is affected at times by discharge from flood-detention pools of 23 floodwater-retarding structures with a combined detention capacity of 15,370 acre-ft. These structures control runoff from 52.4 mi<sup>2</sup> in the Chambers Creek watershed. Conservation pool storage is 46,122 acre-ft. Data regarding the dam are given in the following table:

ETG.	vation
(1)	feet)
Top of dam	460.0
Bebigh 2200diiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	455.9
Crest of spillway (top of flood-control pool)	439.0
Top of conservation pool	421.0
Lowest gated outlet (invert)	391.0

COOPERATION .-- Capacity tables furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 112,100 acre-ft, May 22, 1990, elevation, 434.54 ft; minimum contents since initial filling, 37,500 acre-ft, Dec. 8, 1999, elevation, 417.21 ft, Nov. 10, 1978, based on Oct. 1976 capacity table.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 68,160 acre-ft, Dec. 26, elevation, 426.55 ft; minimum contents, 41,090 acre-ft, Sept. 30, elevation, 419.24 ft.

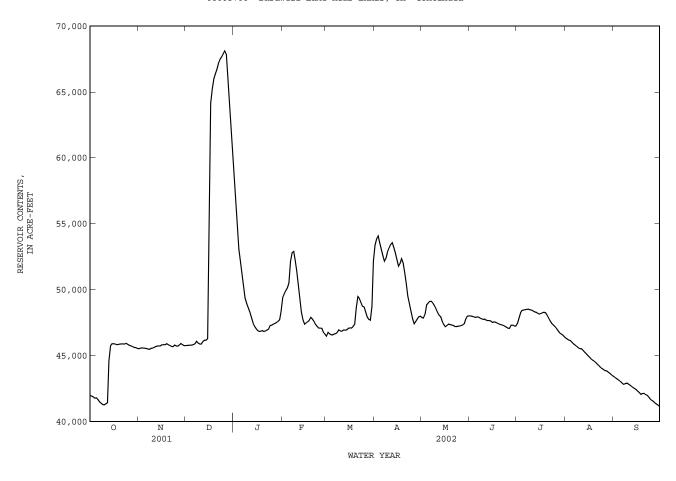
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41960	45520	45760	58680	49380	46470	53350	47880	48010	47420	46330	43380
2	41920	45550	45760	56840	49680	46750	53840	47850	47990	47810	46240	43290
3	41860	45580	45790	54880	49930	46650	54070	48140	47950	48240	46170	43200
4	41770	45570	45790	53090	50110	46580	53580	48860	47890	48420	46120	43110
5	41790	45550	45800	52150	50510	46570	53060	48990	47920	48450	45990	43020
6	41650	45530	45830	51220	52140	46630	52590	49110	47920	48480	45870	42910
7	41490	45490	45890	50240	52800	46670	52150	49110	47850	48510	45780	42810
8	41380	45470	46080	49360	52910	46770	52380	48960	47790	48520	45690	42880
9	41290	45550	45940	48940	52250	46960	52860	48790	47740	48480	45580	42910
10	41260	45570	45870	48620	51400	46850	53150	48540	47760	48450	45520	42840
11	41340	45610	45870	48290	50370	46850	53430	48290	47690	48390	45520	42760
12	41410	45680	46060	47930	49310	46950	53560	48060	47650	48320	45380	42670
13	44580	45730	46170	47520	48290	46930	53220	47940	47660	48280	45250	42570
14	45730	45730	46160	47240	47700	46950	52790	47570	47630	48210	45140	42490
15	45890	45740	46290	47040	47380	47070	52290	47360	47510	48140	45010	42410
16	45900	45820	56640	46890	47470	47100	51780	47180	47550	48190	44890	42280
17	45870	45820	64130	46830	47570	47090	51990	47280	47540	48240	44760	42180
18	45820	45820	65230	46840	47670	47200	52340	47390	47460	48290	44660	42050
19	45850	45900	66010	46890	47900	47370	52010	47350	47400	48250	44580	42120
20	45880	45810	66390	46830	47770	48630	51270	47320	47360	48080	44490	42130
21	45880	45760	66710	46870	47600	49470	50410	47290	47330	47840	44350	42030
22	45880	45690	67160	46930	47380	49350	49520	47210	47280	47630	44240	41980
23	45880	45670	67470	47000	47220	49040	48930	47200	47220	47440	44130	41840
24	45920	45800	67660	47280	47080	48730	48370	47220	47150	47310	44030	41700
25	45840	45720	67870	47300	47090	48680	47790	47250	47070	47200	43940	41600
26	45770	45720	68110	47380	47060	48320	47410	47270	47060	47050	43860	41520
27	45740	45800	67860	47430	46770	47940	47570	47310	47300	46890	43850	41390
28	45680	45920	66190	47500	46630	47750	47760	47410	47310	46740	43750	41310
29	45620	45820	64420	47590		47680	47940	47750	47240	46640	43660	41240
30	45610	45750	62470	47720		48730	47980	47990	47230	46560	43550	41130
31	45540		60560	48350		52150		48010		46440	43450	
TOTAL	1368000	1370690	1733940	1517670	1369370	1476880	1539390	1483880	1426460	1482910	1391780	1269750
MEAN	44130	45690	55930	48960	48910	47640	51310	47870	47550	47840	44900	42320
MAX	45920	45920	68110	58680	52910	52150	54070	49110	48010	48520	46330	43380
MIN	41260	45470	45760	46830	46630	46470	47410	47180	47060	46440	43450	41130
(+)	420.70	420.77	424.71	421.52	421.04	422.54	421.42	421.42	421.21	420.99	420.02	419.25
(@)	+3510	+210	+14810	-12210	-1720	+5520	-4170	+30	-780	-790	-2990	-2320
( w )	+3510	+210	+14810	-12210	-1/20	+3520	-41/0	+30	-780	- 790	-2990	-2320

CAL YR 2001 MAX 106900 MIN 41090 (@) +9790 WTR YR 2002 MAX 68110 MIN 41130 (@) -900

<sup>(+)</sup> Elevation, in feet, at end of month. (@) Change in Contents, in acre-feet.

08063700 Bardwell Lake near Ennis, TX--Continued



#### 08063700 Bardwell Lake near Ennis, TX--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1998 to current year. BIOCHEMICAL DATA: Oct. 1998 to current year. PESTICIDE DATA: July 1999 to current year.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

#### 321506096382601 -- Bardwell Lk Site AC

				321	.506096382	601 Ba	ırdwell Lk	Site AC					
Date	Time	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB	1151	46000		1 00	206	0.1	10.0	10.5	0.5	=1.01	22	100	
28 FEB	1151	46700	.53	1.00	326	8.1	10.0	10.7	96	E18k	23	120	6
28-28 28	1151 1156			10.0	325	8.0	10.0	10.6	 95				
28	1202			20.0	326	8.0	10.0	10.6	95				
28	1207			30.0	328	8.0	9.5	10.3	91				
28 APR	1212			38.0	321	7.9	6.5	10.3	85			120	5
25	1227	47700	.55	1.00	364	8.2	22.5	7.8	91	E1k	E1k	130	14
25 25	1233 1239			10.0 20.0	364 365	8.2 8.2	22.0 22.0	7.7 7.8	89 90				
25	1245			30.0	366	7.3	18.0	1.4	15				
25 AUG	1253			39.0	369	7.2	17.0	.2	2			140	8
07 AUG	1104	45800	.85	1.00	309	8.5	30.5	8.9	121	<1k	<1k	92	8
07-07	1104												
07 07	1110 1115			10.0	311 338	8.3 7.3	30.0 28.5	7.6 .2	102 3				
07	1120			30.0	349	7.1	28.0	.2	3				
07	1125			35.0	364	7.1	27.5	.3	4			110	
				321	506096382	601 Ba	ırdwell Lk	Site AC					
Date	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 28	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)
FEB	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 28 FEB 28-28 28	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 28 FEB 28-28 28 28	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 28 FEB 28-28 28 28 28	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)
FEB 28 FEB 28-28 28 28 28 28	DIS- SOLVED (MG/L AS CA) (00915) 43.3   43.3 49.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  11 1 2	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  134  134 143	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1 13.4	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5
FEB 28 FEB 28-28 28 28 28 28 APR 25	DIS- SOLVED (MG/L AS CA) (00915) 43.3	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47	DIS- SOLVED (MG/L AS NA) (00930) 21.3   21.1	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)  27  27  25	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121	DIS- SOLVED (MG/L AS SO4) (00945) 36.6	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1    13.4	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6    5.7
FEB 28 FEB 28-28 28 28 28 28	DIS- SOLVED (MG/L AS CA) (00915) 43.3   43.3 49.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7	SODIUM AD- SORP- TION RATIO (00931) .9   .8 .8	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  134  134 143	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1   13.4	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7
FEB  28 FEB  28-28 28 28 28 25 25 25 25 25	DIS- SOLVED (MG/L AS CA) (00915) 43.3 	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30    2.29 2.47	DIS- SOLVED (MG/L AS NA) (00930) 21.3 	SODIUM AD- SORP- TION RATIO (00931) .98 .8	SODIUM PERCENT (00932) 27   27 25 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98 	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1    13.4 11.7	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5
FEB	DIS- SOLVED (MG/L AS CA) (00915)  43.3  43.3  49.9	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47 	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932) 27 	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  1 1 2	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  134  134  143	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2 	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1 13.4 11.7	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5 
FEB  28 FEB  28-28  28 28 28 APR  25 25 25 27 AUG  07 AUG  07-07	DIS- SOLVED (MG/L AS CA) (00915)  43.3  43.3  49.9 49.9  32.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47  2.55 2.55	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7 22.2 25.2	SODIUM AD- SORP- TION RATIO (00931)  .98 .8 .88 .1	SODIUM PERCENT (00932)  27	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98   4.07	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  1 1 2 1 2 1	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2   36.2 38.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .33 .33 .4	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5   6.2 5.4
FEB	DIS- SOLVED (MG/L AS CA) (00915)  43.3  43.3  49.9 49.9  32.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47   2.55 2.55	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7 22.2  25.2	SODIUM AD- SORP- TION RATIO (00931)  .98 .88 .1	SODIUM PERCENT (00932)  27  27  25 26 36	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98   4.07 4.77	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  1 1 2 1 2 1	BICAR- BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  134 134 143 153 98	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113 112 121 126 84	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2   36.2 38.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .3   .3 .3   .3	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5   6.2 5.4
FEB  28 FEB  28-28  28 28 28 APR  25 25 25 27 AUG  07 AUG  07-07	DIS- SOLVED (MG/L AS CA) (00915)  43.3  43.3  49.9 49.9  32.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 2.30   2.29 2.47  2.55 2.55	DIS- SOLVED (MG/L AS NA) (00930)  21.3  21.1  21.7 22.2 25.2	SODIUM AD- SORP- TION RATIO (00931)  .98 .8 .88 .1	SODIUM PERCENT (00932)  27	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.30   4.18 3.98   4.07	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  1 1 2 1 2 1	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  134	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  113	DIS- SOLVED (MG/L AS SO4) (00945) 36.6   36.6 37.2   36.2 38.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 13.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .33 .33 .4	DIS- SOLVED (MG/L AS SIO2) (00955) 5.6   5.7 3.5   6.2 5.4

### 08063700 Bardwell Lake near Ennis, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

Date	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	BENZENE TOTAL (UG/L) (34030)
FEB 28	197	.65	.029	. 68	.06	.30	.35	.006	<.02		<10	E1.0n	
FEB													
28-28 28													
28													
28 28	 198	 .66	.027	 .69	.07	.29	.37	.009	<.02		 <10	3.8	
APR		.00				. 23	.37					3.0	
25	206	.66 	.023	.69 	<.04		.35	.005	<.02		<10	E1.2n	<.2
25 25		.67	.024	.69	<.04		.35	.005	<.02		<10	4.1	
25			<.008	.98	<.04		.35	.008	<.02		<10	3.3	
25 AUG	214	.86	.055	.91	.05	.38	.43	.011	<.02		<10	37.0	
07 AUG	173		E.004	<.05	<.04		.29	.009	<.02		<10	E1.3n	<.2
07-07													
07 07			<.008 E.004	<.05 <.05	<.04	.30	.29	.005	<.02 <.02		<10 38	6.3 202	
07													
07	205		<.008	<.05	1.21	.32	1.5	.110	.09	.264	681	1950	
Date	ETHYL- BENZENE TOTAL	TOLUENE TOTAL	XYLENE WATER UNFLTRD REC	METHYL TERT- BUTYL ETHER WAT UNF	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U	ACETO- CHLOR, WATER FLTRD	ALA- CHLOR, WATER, DISS,	ALPHA BHC DIS-	ATRA- ZINE, WATER, DISS, REC	METHYL AZIN- PHOS WAT FLT 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	BUTYL- ATE, WATER, DISS, REC	CAR- BARYL WATER FLTRD 0.7 U GF. REC
Date		TOLUENE TOTAL (UG/L) (34010)	WATER	METHYL TERT- BUTYL ETHER	2,6-DI- ETHYL ANILINE WAT FLT	ACETO- CHLOR, WATER	ALA- CHLOR, WATER,	ALPHA BHC	ZINE, WATER,	AZIN- PHOS WAT FLT	FLUR- ALIN WAT FLD	ATE, WATER,	BARYL WATER FLTRD
	BENZENE TOTAL (UG/L)	TOTAL (UG/L)	WATER UNFLTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ZINE, WATER, DISS, REC (UG/L)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)
Date FEB 28 FEB	BENZENE TOTAL (UG/L)	TOTAL (UG/L)	WATER UNFLTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L)	ACETO- CHLOR, WATER FLTRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ZINE, WATER, DISS, REC (UG/L)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)
FEB 28 FEB 28-28	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28 28	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLITRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28 28 28 28	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28 28 28 28	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FITTER REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB 28 FEB 28-28 28 28 28 28 APR 25	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)  <.2	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005  	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28 28 28 28 28 28 25 25	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   	ACETO-CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB 28 FEB 28-28 28 28 28 28 25 25 25	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)  <.2	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTR REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005  	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
FEB 28 FEB 28-28 28 28 28 28 28 25 25	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006   	ACETO-CHLOR, WATER FITRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005   	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050    	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010    	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB 28 FEB 28-28 28 28 28 28 25 25 25 25 AUG 07 AUG	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)  <.2 <.2 <.2	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTR REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253) <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050     	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB 28 FEB 28-28 28 28 28 25 25 25 25 27 28 28 APR 27 28 28 28 APR 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 20	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006    	ACETO-CHLOR, WATER FLITRD REC (UG/L) (49260)  <.006	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050     	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB 28 FEB 28-28 28 28 28 28 25 25 25 4UG 07-07 07 AUG 07-07	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLIRD REC (UG/L) (81551)  <.2 <.2	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006             	ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)  <.006          	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005	ZINE, WATER, DISS, REC (UG/L) (39632) 517	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050             	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010             	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041
FEB	BENZENE TOTAL (UG/L) (34371)	TOTAL (UG/L) (34010)	WATER UNFLTRD REC (UG/L) (81551)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)  <.006             	ACETO- CHLOR, WATER FITRD REC (UG/L) (49260)  <.006             	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.004 <.004	ALPHA BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632) 517	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050             	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010             	ATE, WATER, DISS, REC (UG/L) (04028)  <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041

### 08063700 Bardwell Lake near Ennis, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

Date	CARBO- FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
FEB 28													
FEB 28-28	<.020	<.005	<.006	<.018	<.003	E.063	.007	<.005	<.02	<.002	<.009	<.005	<.003
28													
28 28													
28													
APR													
25 25													
25													
25													
25 AUG													
07 AUG													
07-07	<.020	<.005	<.006	<.018	<.003	E.150	<.005	<.005	<.02	<.002	<.009	<.005	<.003
07													
07 07													
07													
Date	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLIRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	rdwell Lk NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
Date FEB 28	DIS- SOLVED (UG/L)	URON WATER FLTRD 0.7 U GF, REC (UG/L)	THION, DIS- SOLVED (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)
FEB 28 FEB	DIS- SOLVED (UG/L) (39341)	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
FEB 28 FEB 28-28	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
FEB 28 FEB 28-28 28	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
FEB 28 FEB 28-28 28 28	DIS- SOLVED (UG/L) (39341)  <.004  	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)  <.010  	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011 
FEB 28 FEB 28-28 28	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
FEB 28 FEB 28 - 28 28 28 28 28 28	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532) <.027	METO- LACHLOR WCHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003  	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022   	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011  
FEB 28 FEB 28-28 28 28 28 28 25 25	DIS- SOLVED (UG/L) (39341)	URON WATER FLIRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002  	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003  	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011  
FEB 28 FEB 28 - 28 28 28 28 28 28	DIS- SOLVED (UG/L) (39341)  <.004   	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027    	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003   	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006   	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011   
FEB 28 FEB 28-28 28 28 28 28 25 25 25 25	DIS- SOLVED (UG/L) (39341)	URON WATER FLIRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002   	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003   	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022    	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011
FEB  28 FEB  28 -28 28 28 28 25 25 25 26 27 28 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007	P,P' DDE DISSOLV (UG/L) (34653)  <.003   	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006    	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022    	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011
FEB  28 FEB  28 - 28  28 28 28 25 25 25 25 AUG  07 AUG  07 - 07	DIS- SOLVED (UG/L) (39341)  <.004     	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007    	P,P' DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006     	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022     	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011
FEB  28 FEB  28 -28  28 28 28 25 25 25 4UG 07 -07 07 07	DIS- SOLVED (UG/L) (39341)  <.004             	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002      <.002	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653) <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006           	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022             -	WATER FILTRD 0.7 U GF, REC (UG/L) (82664) <- 011 <- 011 <- 011
FEB 28 FEB 28-28 28 28 28 25 25 25 27 21 21 22 22 23 24 25 25 25 26 27 28 29 20	DIS- SOLVED (UG/L) (39341)  <.004             	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)  <.035	THION, DIS- SOLVED (UG/L) (39532)  <.027	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)  <.006 <.006	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)  <.002 <.002	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007	P,P' DDE DISSOLV (UG/L) (34653) <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006            	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.022             -	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011

### 08063700 Bardwell Lake near Ennis, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

			-	DO 52	20 5	DOM				תיק	משים		0	- A.T	DT
Date	PRO MET WAT DIS REC (UG/	ON, CHI ER, WAT S, DIS REG L) (UG,	DPA- PA LOR, WA TER, FL SS, 0. C GF, (L) (UG	NIL PAROTER WA'TER WA'TRD FL'7 U 0.'REC GF,/L) (UG	GITE AL FER W. FRD F: 7 U 0 REC GF /L) (U	ATER M LTRD .7 U , REC G/L) (	SI- AZINE, WATER, DISS, REC UG/L)	TEB THIU WAT FLT 0.7 GF, (UG/	RON BAC ER WAT RD FLT U 0.7 REC GF, L) (UG,	TER 1 TRD 1 7 U 6 REC G1 /L) (1	TER- BUFOS WATER FLTRD D.7 U F, REC UG/L)	(UG/	ARB LATER WATER WA	TE FLITER ALCED WAT OCCUPANT O	FLT 7 U REC /L)
	(040	37) (040	024) (82	679) (82	685) (8	2676) (	04035)	(826	70) (826	565) (	32675)	(826	81) (826	578) (82	661)
FEB								_							
28 FEB	-											_			
28-28 28	E.0				.02 <	.004	.069	E.0		034 	<.02	<.0			009 
28	-							-				-			
28 28	-							_				_			
APR 25	_							_				_			
25	-							-				-			
25 25	-							_				_			
25 AUG	-							-				-			
07	-							-				-			
AUG 07-07	.0	3 <.0	010 <.	011 <	.02 <	.004	.057	.0	3 <.0	034	<.02	<.0	05 <.0	002 <.	009
07 07	_							_				_			
07	-							-				-			
07	-							-				-		-	
				32	17040963	93501	Bardwe	ell I.k	Site BC						
										COT T				HARD-	
		TRANS-		SPE-	PH WATER				OXYGEN, DIS-	COLI: FORM	,		HARD-	NESS	
		PAR- ENCY	SAM-	CIFIC CON-	WHOLE FIELD	TEMPE	R- OXY	GEN,	SOLVED (PER-	FECAL		COLI, EC MF	NESS TOTAL	NONCARB DISSOLV	CALCIUM DIS-
Date	Time	(SECCHI DISK)	PLING DEPTH	DUCT- ANCE	(STAND ARD	- ATUR WATE		DIS- DLVED	CENT SATUR-	UM-M		TER OL/	(MG/L AS	FLD. AS CACO3	SOLVED (MG/L
Date	TIME	(M)	(FEET)	(US/CM)	UNITS	) (DEG	C) (N	MG/L)	ATION)	100 M	L) 10	0 ML)	CACO3)	(MG/L)	AS CA)
		(00078)	(00003)	(00095)	(00400	) (0001	0) (00	0300)	(00301)	(3162	5) (3	1633)	(00900)	(00904)	(00915)
FEB 28	1228	.34	1.00	329	8.1	10.0	10	0.8	97	E81	e	E1k	20	6	43.9
28	1232		10.0	327	8.1	10.0	10	8.0	97						
28 APR	1237		22.0	324	8.1	9.5	10	0.7	95				120	2	43.2
25 25	1318 1325	.46	1.00 10.0	366 366	8.2 8.2	22.5 22.5		7.8 7.7	91 90	E21	2	E2k	130	8	49.5
25	1332		22.0	368	7.5	20.5		2.9	33				130	11	49.3
AUG 07	1144	.67	1.00	317	8.5	31.0		3.1	111	<11	2	E6k	91	3	32.5
07 07	1149 1156		10.0 21.0	324 344	7.8 7.3	29.5 28.5		5.5	73 3				100		 37.9
				32	17040963	93501	Bardwe	ell Lk	Site BC						
						CAR-	BIO	CAR-	ALKA-						SOLIDS,
	MAGNE- SIUM,	CODITIM	SODIUM AD-		POTAS SIUM	- BONAT	E BON	NATE ATER	LINITY WAT DIS	SULFA'		HLO- IDE,	FLUO- RIDE,	SILICA, DIS-	SUM OF CONSTI-
	DIS-	SODIUM, DIS-	SORP-		DIS-	DIS I	T DIS	SIT	TOT IT	DIS-	D	IS-	DIS-	SOLVED	TUENTS,
Date	SOLVED (MG/L	SOLVED (MG/L	TION RATIO	SODIUM	SOLVE (MG/L			ELD L AS	FIELD MG/L AS	SOLV		OLVED MG/L	SOLVED (MG/L	(MG/L AS	DIS- SOLVED
	AS MG) (00925)	AS NA) (00930)	(00931)	PERCENT (00932)	AS K) (00935	CO3 (0045		CO3 0453)	CACO3 (39086)	AS SO		S CL) 0940)	AS F) (00950)	SIO2) (00955)	(MG/L) (70301)
	(00)25)	(00550)	(00)31)	(00)32)	(00)33	) (0045	2) (00	7433)	(32000)	(00)4.	5) (0	0,540,	(00)30)	(00)33)	(70301)
FEB 28	2.32	21.0	.8	27	4.07	1	1	L36	113	36.8	1	3.8	.3	5.7	199
28 28	2.29	21.2	 .9	 27	 4.19	1	1	 L38	 115	 36.5	1	 3.7	.3	 5.7	 199
APR															
25 25	2.42	21.5	.8	25 	4.06	2		L48 	125	36.7 		1.8	.3	3.6	208
25 AUG	2.50	21.9	.8	26	4.10	<1	1	L49	123	36.6	1	1.6	.3	4.7	208
07	2.42	25.8	1	37	4.74	2		L03	88	38.9	1	4.9	. 4	5.4	178
07 07	2.48	25.4	1	33	4.52	1		 L28	105	35.2	1	4.7	.4	6.5	192

### 08063700 Bardwell Lake near Ennis, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

### 321704096393501 -- Bardwell Lk Site BC

Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB										
28	.66	.027	.68	.05	. 29	.34	.008	<.02	31	E2.2b
28										
28	.66	.027	.69	.05	. 29	.34	.006	<.02	16	E1.9b
APR										
25	.64	.019	.66	< .04		.36	.004	<.02	<10	<2.0
25	.64	.018	.66	< .04		.37	.006	<.02	15	E1.2n
25	.85	.014	.87	< .04		.42	.007	<.02	<10	E2.7b
AUG										
07		E.004	<.05	< .04		.28	.006	<.02	<10	E1.5
07		E.004	<.05	< .04		.29	.005	<.02	<10	11.0
07		E.004	<.05	.15	.32	.47	.009	<.02	393	482

#### 321830096404001 -- Bardwell Lk Site CC

Date	Time	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
FEB													
28	1250	.30	1.00	330	8.2	9.0	11.8	103	.65	.026	.68	E.03	.34
28	1553		4.00	334	8.2	9.0	11.7	102					
APR													
25	1343	.30	1.00	363	8.3	22.5	8.3	97	.64	.021	.66	<.04	.37
25	1347		3.00	363	8.3	22.5	8.4	98					
AUG													
07	1211	.34	1.00	324	8.4	31.5	7.8	108		E.004	<.05	<.04	. 29
07	1214		4.00	326	8.4	31.0	7.6	104					

### 321830096404001 -- Bardwell Lk Site CC

		ORTHO-		
	PHOS-	PHOS-		MANGA-
	PHORUS	PHATE,	IRON,	NESE,
	DIS-	DIS-	DIS-	DIS-
	SOLVED	SOLVED	SOLVED	SOLVED
Date	(MG/L	(MG/L	(UG/L	(UG/L
	AS P)	AS P)	AS FE)	AS MN)
	(00666)	(00671)	(01046)	(01056)
FEB				
28	.009	<.02	61	5.1
28				
APR				
25	.006	<.02	<10	E1.5n
25				
AUG				
07	.006	<.02	<10	<2.0
07				

### 321758096412901 -- Bardwell Lk Site DC

					PH			OXYGEN,	COLI-			HARD-	
		TRANS-		SPE-	WATER			DIS-	FORM,		HARD-	NESS	
		PAR-		CIFIC	WHOLE			SOLVED	FECAL,	E COLI,	NESS	NONCARB	CALCIUM
		ENCY	SAM-	CON-	FIELD	TEMPER-	OXYGEN,	(PER-	0.7	MTEC MF	TOTAL	DISSOLV	DIS-
		(SECCHI	PLING	DUCT-	(STAND-	ATURE	DIS-	CENT	UM-MF	WATER	(MG/L	FLD. AS	SOLVED
Date	Time	DISK)	DEPTH	ANCE	ARD	WATER	SOLVED	SATUR-	(COLS./	(COL/	AS	CACO3	(MG/L
		(M)	(FEET)	(US/CM)	UNITS)	(DEG C)	(MG/L)	ATION)	100 ML)	100 ML)	CACO3)	(MG/L)	AS CA)
		(00078)	(00003)	(00095)	(00400)	(00010)	(00300)	(00301)	(31625)	(31633)	(00900)	(00904)	(00915)
FEB													
28	1317	.30	1.00	329	8.2	9.5	11.5	102	E4k	E9k	130	9	46.7
28	1326		5.00	329	8.2	9.5	11.5	102			130	10	47.7
APR													
25	1407	.23	1.00	392	8.1	22.5	8.4	98	E16k	E23	160	18	59.6
25	1415		6.00	397	8.1	22.5	8.2	96			150	5	57.4
AUG													
07	1229	.34	1.00	349	8.4	32.0	9.0	126	<2k	<2k	93	6	33.2
07	1235		5.00	384	8.2	30.5	7.8	106			100	9	37.2

#### 08063700 Bardwell Lake near Ennis, TX--Continued

#### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321758096412901 -- Bardwell Lk Site DC

Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
FEB													
28	2.36	22.3	.9	27	4.22	1	140	117	38.3	13.6	.3	5.6	207
28	2.36	22.4	.9	27	4.35	2	142	119	42.4	14.6	.3	5.3	214
APR													
25	2.33	21.0	.7	22	3.80	2	166	141	37.0	12.0	. 3	5.0	228
25	2.33	20.7	.7	22	3.84	1	179	148	36.4	11.8	. 3	4.8	229
AUG													
07	2.38	29.8	1	39	5.28	2	102	87	46.8	19.2	. 4	6.0	195
07	2.49	33.0	1	39	5.81	1	112	94	53.9	20.2	. 4	6.6	216

321758096412901 -- Bardwell Lk Site DC

Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB									
28	.70	.026	.73	E.03	.33	.009	<.02	60	5.7
28	.77	.023	.80	E.04	.30	.006	<.02	80	9.6
APR									
25	.54	.013	.55	< .04	.34	.007	<.02	<10	E.9n
25	.54	.013	.55	< .04	.34	.007	<.02	<10	<2.0
AUG									
07		E.005	<.05	<.04	.31	.006	<.02	<10	<2.0
07		E.006	.05	<.04	.31	.006	<.02	<10	E1.3n

Remark codes used in this report

< -- Less than E -- Estimated value

Value qualifier codes used in this report: b -- Value was extrapolated below k -- Counts outside acceptable range n -- Below the NDV

Null value qualifier codes used in this report: u -- Unable to determine-matrix interference

#### 08063800 Waxahachie Creek near Bardwell, TX

LOCATION.--Lat 32°14'36", long 96°38'24", Ellis County, Hydrologic Unit 12030109, on left bank at downstream side of highway embankment near left end of bridge on county road, 0.8 mi downstream from Bardwell Dam, 3.6 mi southeast of Bardwell, 3.8 mi downstream from bridge on State Highway 34, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--178 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 360.18 ft above NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Oct. 2, 1998, at datum 10.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since Nov. 1965, at least 10% of contributing drainage area has been regulated. No flow at times.

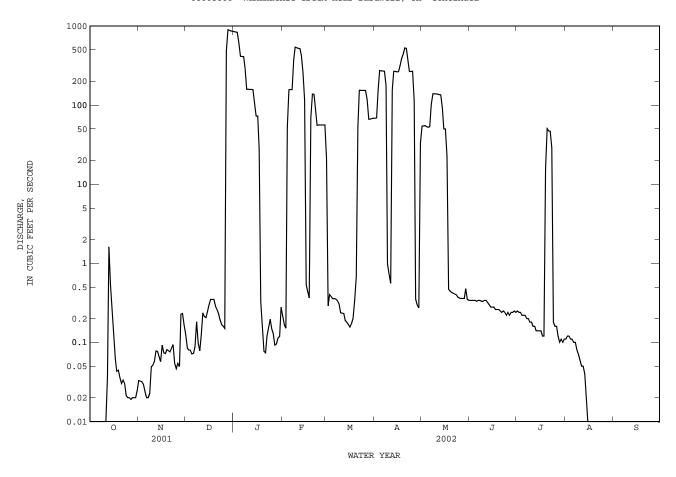
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1944, about 23 ft in 1944 and 1945, from information by U.S. Army Corps of Engineers.

	D	ISCHARGE	FROM DCP	, CUBIC F		ECOND, WA LY MEAN V		OCTOBER 200	)1 TO SE	PTEMBER 200	)2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	e0.0 e0.0 e0.0 e0.00 e0.00	0.03 0.03 0.03 0.03 0.02	0.13 0.09 0.08 0.08 0.07	848 841 834 615 414	0.22 0.17 0.15 52 157	21 0.29 0.40 0.38 0.36	68 69 160 273 271	54 54 55 53 53			e0.11 e0.12 e0.12 e0.11 e0.11	e0.0 e0.0 e0.0 e0.0 e0.0
6 7 8 9 10	e0.0 e0.0 e0.0 e0.0	0.02 0.02 0.02 0.05 0.05	0.07 0.09 0.18 0.10 0.08	412 409 291 159 159	157 157 378 540 529	0.36 0.35 0.34 0.31 0.24	269 269 177 0.98 0.73	53 103 139 139 139	e0.34 e0.34 e0.33 e0.33	e0.22 e0.20 e0.20 e0.18 e0.18	e0.10 e0.08	e0.0 e0.0 e0.0 e0.0 e0.0
11 12 13 14 15	e0.0 0.04 1.6 0.52 0.25	0.06 0.08 0.08 0.07 0.06	0.13 0.24 0.21 0.20 e0.25	158 158 157 106 72	524 518 422 258 116	0.23 0.23 0.19 0.18 0.17	0.56 155 269 267 264	138 136 135 92 50	e0.34 e0.32 e0.30 e0.28 e0.28	e0.16 e0.16 e0.14 e0.14 e0.14	e0.05 e0.05 e0.04 e0.02 e0.01	e0.0 e0.0 e0.0 e0.0 e0.0
16 17 18 19 20	0.12 0.06 0.04 0.04 0.04	0.09 0.07 0.07 0.08 0.08	e0.30 e0.35 e0.35 0.35 0.29	73 28 0.33 0.15 0.08	0.54 0.43 0.36 69 138	0.16 0.17 0.20 0.34 0.67	265 317 385 437 527	50 23 0.47 0.44 0.43	e0.28 e0.26 e0.26 e0.26 e0.25	e0.14 e0.12 e0.12 16 50	e0.0 e0.0 e0.0 e0.0 e0.0	e0.0 e0.0 e0.0 e0.0 e0.0
								0.42 0.41 0.40 0.37 0.36				
26 27 28 29 30 31	0.02 0.02 0.02 0.02 0.02 0.02	0.05 0.05 0.23 0.23 0.17	0.15 485 897 879 867 858	0.13 0.09 0.10 0.11 0.12 0.28	56 56 56  	153 117 66 66 67 68	111 0.35 0.30 0.27 33	0.36 0.36 0.36 0.48 e0.35 e0.34	e0.22 e0.24 e0.24 e0.25 e0.24	e0.16 e0.12 e0.10 e0.11 e0.10 e0.11	e0.0 e0.0 e0.0 e0.0 e0.0	e0.0 e0.0 e0.0 e0.0 e0.0
TOTAL MEAN MAX MIN AC-FT	2.96 0.095 1.6 0.00 5.9	2.12 0.071 0.23 0.02 4.2	3990.80 128.7 897 0.07 7920	5736.08 185.0 848 0.07 11380	4574.87 163.4 540 0.15 9070	1229.57 39.66 154 0.16 2440	6291.19 209.7 527 0.27 12480	1471.55 47.47 139 0.34 2920	8.58 0.286 0.34 0.22 17	193.31 6.236 50 0.10 383	1.15 0.037 0.12 0.00 2.3	0.0 0.000 0.00 0.00
STATIST							•	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	18.90 299 1974 0.000 1964	74.62 723 1992 0.000 1964	87.74 603 1999 0.018 1990	124.5 921 1998 0.022 1967	114.3 605 1992 0.022 1967	161.2 710 1997 0.024 1967	128.6 590 1977 0.11 1996	158.6 827 1973 0.11 1996	179.9 773 1989 0.001 1996	24.67 370 1981 0.000 1966	4.293 71.8 1973 0.000 1964	5.831 178 1976 0.000 1966
SUMMAR	Y STATIST	ICS	FOR	2001 CAL	ENDAR YEA	R	FOR 2002	WATER YEAR		WATER YEAR	RS 1964 -	2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM ANNUAL 10 PERC 50 PERC	MEAN I ANNUAL ANNUAL M I DAILY ME SEVEN-DA M PEAK FL M PEAK ST	EAN EAN AN Y MINIMU OW AGE AC-FT) EDS EDS	М	44551. 122. 1580 0. 0. 88370 287 0.	Mar 2.00 Jul 000 Jul 000 Jul 000 000 000 000	2 7 7	0.	Dec 28 00 Oct 1 00 Oct 1 Dec 27 23 Dec 27		90.02 318 0.06 1880 0.00 0.00 0.00 1960 aa28.13 65210 283 1.1	Jun 25 Jun 25 Oct 1 Oct 1 Jun 25 Jun 25	1992 1967 1981 1963 1963 1981 1981

e Estimated

aa Adjusted to present datum.

08063800 Waxahachie Creek near Bardwell, TX--Continued



#### 08063800 Waxahachie Creek near Bardwell, TX--Continued

#### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year. BIOCHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
FEB 28	1300	56	324	8.4	10.0	11.7	104		120	10	43.9	2.31	21.4
APR 24	1400	262	368	8.3	21.0	8.4	96		130	9	49.1	2.46	21.8
AUG 07	1032	.42	407	7.4	27.5	5.3	68	<2.0	130		46.8	2.87	26.9
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
FEB 28	.9	27	3.88	1	131	110	36.7	13.7	.3	5.31	212	196	24
APR 24	.8	26	4.07	1	148	124	36.9	12.0	.2	3.61	222	208	23
AUG 07	1	30	4.02	<1	161	132	41.1	16.9	.4	5.93	243	224	<10
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
FEB 28	.66	.027	.69	.05	.33	.38	.008	<.02	5.0	<1	<.05	2	52
APR 24	.73	.051	.78	E.02		.41	.007	<.02	5.3	1	.38	3	61
AUG 07	.73	<.008	<.05	<.04		.33	.015	<.02	4.6	3	.24	4	61
07		<.008	<.05	<.04		.33	.015	<.02	4.0	3	.24	4	91
Date	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
FEB			_					_		_		6	-
28 APR	<.06	<.04	<.8	.15	1.2	E9	.10	.3	<.01	.3	1.53	<2	<1
24													
AUG 07	<.06 <.06	E.03	<.8	.17	1.8	<10 <10	.08	.4 8.7	E.01n <.01	3.4 4.6	1.45 2.17	<2 <2	<1 <1

		URANIUM
	ZINC,	NATURAL
	DIS-	DIS-
	SOLVED	SOLVED
Date	(UG/L	(UG/L
	AS ZN)	AS U)
	(01090)	(22703)
FEB		
28	<1	.71
APR		
24	2	.82
AUG		
07	4	.58

Remark codes used in this report:
<-- Less than
E -- Estimated value

Value qualifier codes used in this report:  $\ensuremath{\text{n}}$  -- Below the NDV

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#### 08064100 Chambers Creek near Rice, TX

LOCATION.--Lat 32°11'54", long 96°31'12", Navarro County, Hydrologic Unit 12030109, on downstream side of highway embankment 20 ft to left of left end of bridge on Farm Road 1126, 3.6 mi downstream from Oak Branch, 3.9 mi upstream from Cummins Creek, 4.2 mi upstream from bridge on Interstate Highway 45, 5.0 miles downstream from Waxahachie Creek, and 3.4 mi southwest of Rice.

DRAINAGE AREA. -- 807 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Oct. 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 340.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1984, at least 10% of contributing drainage area has been regulated. Flood releases from Bardwell Lake will sustain flows at this site from time to time. In addition, flow is affected at times by discharge from the flood-detention pools of numerous floodwater-retarding structures in the drainage basin above this station. No flow at times.

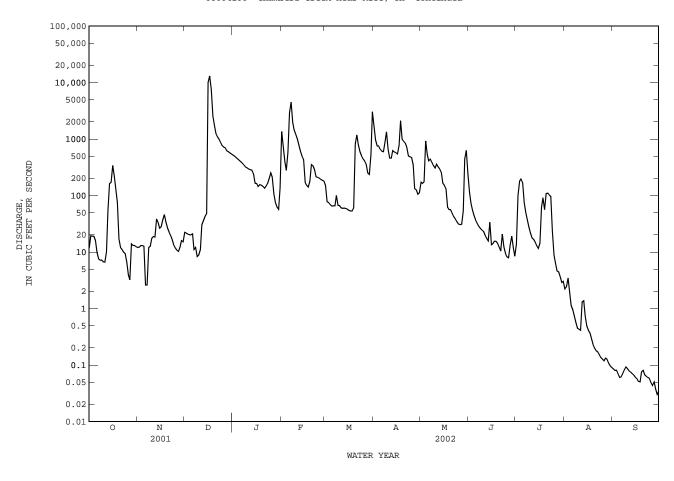
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood information for the next downstream station, Chambers Creek near Corsicana, (08064500) indicates that the maximum stage since at least 1870 occurred in Aug. 1887, and that other significant floods occurred in Dec. 1913, May 1944, and May 1958. Stages for these floods are unknown, but over the years a levee system has been developed along the main channel to limit cropland flooding.

		DISCHARGE	FROM DCP,	CUBIC FEE		OND, WA'		OCTOBER 200	)1 TO SE	PTEMBER 200	)2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	12 19 19 19	12 12 13 13	22 22 21 20 20	e517 e492 e467 e442 e417	1350 751 397 280 577	151 77 75 69 65	1640 955 751 753 659	171 164 175 921 531	115 73 54 44 36	14 100 178 195 169	2.2 2.4 3.5 1.9	0.09 0.08 0.08 0.07 0.06
6 7 8 9 10	9.8 7.5 7.1 7.2 6.7	12 13 18	21 e11 e12 e8.3 e8.9	e392 e367 e343 e318 e306	2930 e4490 e1960 e1440 e1210	66 66 e100 67 66	608 595 888 1340 663	410 441 386 337 308	32 28 26 24 23	74 49 36 28 22	0.96 0.74 0.56 0.45 0.43	0.06 0.07 0.08 0.09 0.09
11 12 13 14 15	6.6 10 e53 e162 e171	19 18 38 34 26		281	e1000 e775 e610 e501 433	60 59 60 59 57	461 461 624 589 574	359 320 294 255 166	20 18 16 e33 13	18 17 15 13	0.41 1.3 1.4 0.74 0.49	0.08 0.07 0.07 0.07 0.06
16 17 18 19 20	341 219 137 76 e17	28 37 46 e34 e27	9960 13000 7550 2550 1730	163 e144 e156 e152 e145	170 150 141 178 353	54 53 53 60 822	545 786 2110 978 904	152 132 62 56 56	14 16 16 14	14 62 91 56 108	0.41 0.37 0.29 0.23 0.20	0.06 0.05 0.05 0.08 0.08
21 22 23 24 25	e12 e11 e10 e9.4 e6.6		1260 e1090 e991 e867 e767	e133 e145 e163 e200 e251	336 289 214 209 203	1180 788 601 506 445	837 711 504 485 469	48 42 38 34 31	10 21 12 9.4 8.2	110 103 96 23 8.9	0.18 0.17 0.15 0.14 0.13	0.07 0.06 0.06 0.06 0.05
26 27 28 29 30 31	e3.9 e3.2 14 13 13	1.0	e717 e692 e617 e592 e567 e542	211 108 74 62 57 135	192 186 180 	410 361 251 237 531 3030	349 133 126 105 113	30 31 53 442 630 241	7.9 13 19 12 8.4	6.2 4.6 4.4 3.6 2.9 3.0	0.12 0.13 0.13 0.11 0.10 0.09	0.04 0.05 0.04 0.03 0.03
TOTAL MEAN MAX MIN AC-FT	1424.0 45.94 341 3.2 2820	18.91 46	43825.2 1414 13000 8.3 86930	7625 246.0 517 57 15120	21505 768.0 4490 141 42660	10479 338.0 3030 53 20790	20716 690.5 2110 105 41090	7316 236.0 921 30 14510	747.9 24.93 115 7.9 1480	195	21.53 0.695 3.5 0.09 43	1.93 0.064 0.09 0.03 3.8
STATIS	TICS OF			FOR WATER Y		- 2002	, BY WATE	R YEAR (WY)				
MEAN MAX (WY) MIN (WY)	303.5 1499 1986 0.000 1989	1999	911.6 3579 1992 1.45 1989	566.7 2393 1998 4.66 1996	805.8 2450 1997 5.16 1996	831.3 2497 2001 6.35 1996	555.5 2218 1995 12.2 1996	698.6 2932 1989 1.34 1996	624.0 2560 1986 0.051 1996	47.96 194 1989 0.081 1988	33.71 185 1995 0.000 1988	24.62 149 1991 0.000 1985
SUMMAR	Y STATI	STICS	FOR	2001 CALEN	DAR YEAR	1	FOR 2002	WATER YEAR		WATER YEAR	RS 1984 -	2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU ANNUAL 10 PER 50 PER	MEAN T ANNUAL ANNUAL T DAILY DAILY I SEVEN-I M PEAK I M PEAK I	MEAN MEAN MEAN DAY MINIMU FLOW STAGE (AC-FT) CEEDS CEEDS	M	202492.72 554.8 13000 0.09 0.09 401600 1850 53 0.27	Dec 17 Aug 11 Aug 11		115865. 317. 13000 0. 0. 18600 29. 229800 713 49 0.	Dec 17 03 Sep 29 04 Sep 24 Dec 16 93 Dec 16		487.2 1263 12.9 22700 0.00 0.00 c43400 32.57 352900 1220 43 0.07		1992 1996 1991 1985 1985 1986 1991

e Estimated

From rating curve extended above 15,000 ft<sup>3</sup>/s on basis of velocity-area study.

08064100 Chambers Creek near Rice, TX--Continued



#### 08064100 Chambers Creek near Rice, TX--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1983 to current year. BIOCHEMICAL DATA: Oct. 1983 to current year. PESTICIDE DATA: Feb. 2000 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Oct. 1983 to Dec. 1993 (local observer), Jan. 1994 to current year. WATER TEMPERATURE: Oct. 1983 to Dec. 1993 (local observer), Jan. 1994 to current year.

INSTRUMENTATION. -- Water-quality monitor since Jan. 1994.

REMARKS.--Records poor. Interruptions in the record were due to malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD. --

NOV. 11, 13, 14, 1998.

WATER TEMPERATURE: Maximum daily, 2,510 microsiemens/cm, Nov. 21, 1988; minimum, 100 microsiemens/cm, Nov. 11, 13, 14, 1998.

WATER TEMPERATURE: Maximum daily, 38.0°C, Aug. 16, 1987; minimum daily, 0.0°C, Feb. 7, 1989.

EXTREMES FOR CURRENT YEAR.-

SPECIFIC CONDUCTANCE: Maximum, 1,050 microsiemens/cm, Aug. 18; minimum, 115 microsiemens/cm, Oct. 13. WATER TEMPERATURE: Maximum, 31.8°C, July 25; minimum, 5.0°C, Mar. 4.

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
FEB 07	0745	352	423	8.3	10.7	9.9	90	160	23	59.7	2.75	22.2	.8
MAR 15	0845	1680	361	8.1	14.5	8.8	88	150	21	56.5	2.65	12.6	. 4
APR 11	1430	892	444	8.2	20.0	7.5	96	160	13	59.7	2.59	18.3	. 6
MAY 16	1130	95	526	7.6	25.5	6.3	79	190	40	69.8	4.56	32.2	1
JUN	1130	95	520	7.6	25.5	0.3	79	190	40	69.8	4.50	32.2	1
14	1100	33	828	6.8	29.0	5.5	73	250	72	88.3	6.44	73.3	2
JUL 11	1300	24	568	6.1	30.2	6.1	83	190	62	69.0	4.65	37.1	1
SEP 06	1300	332	263	6.2	25.7	6.6		89	9	32.4	1.82	12.0	.6
Date	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
FEB 07 MAR	23												
	23	3.99	138	42.8	13.9	. 4	5.01	254	238	.97	.026	1.00	<.04
15	15	3.99	138 131	42.8	13.9 7.07	.4	5.01 8.99	254 227	238 204	.97 .72	.026	1.00	<.04 E.03
APR 11													
APR 11 MAY 16	15	3.02	131	30.8	7.07	.3	8.99	227	204	.72	.013	.73	E.03
APR 11 MAY 16 JUN 14	15 19	3.02	131 147	30.8 37.8	7.07 12.0	.3	8.99 4.22	227 253	204 230	.72 .71	.013	.73 .74	E.03
APR 11 MAY 16 JUN	15 19 26	3.02 3.64 3.85	131 147 153	30.8 37.8 70.0	7.07 12.0 23.2	.3	8.99 4.22 6.35	227 253 335	204 230 306	.72 .71 .98	.013 .025 .014	.73 .74 1.00	E.03 <.04 <.04

### 08064100 Chambers Creek near Rice, TX--Continued

Date	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
FEB 07	1.9	.37	.92	.147	.008	<.02		64.6	68	97	<10	<3.2	<.002
MAR 15	2.2	.43	1.4	.59	.031	.03	.077	3620	797	98	E6	<3.2	<.002
APR 11	1.4	.37	.65	.078	.010	<.02		190	79	100	<10	3.4	<.002
MAY 16	2.1	.45	1.1	.162	.013	<.02		40.8	159	100	<10	3.5	<.002
JUN 14		.27	.67	.096	.009	<.02		11.0	123	84	<10	10.1	<.002
JUL 11 SEP		.41	.79	.121	.011	<.02		4.2	65	100	<10	3.2	<.002
06	2.7	.42	2.1	.79	.028	E.01		898	1000	100	E9	<3.0	<.002
Date	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
FEB 07 MAR	<.004	<.002	<.005	.418	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
15 APR	<.004	<.002	<.005	.088	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
11 MAY	<.004	.012	<.005	.506	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
16 JUN	<.004	.015	<.005	2.80	<.050	<.010	<.002	E.050	<.020	<.005	<.006	<.018	<.003
14 JUL	<.004	<.002	<.005	.364	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
11 SEP	<.004	<.002	<.005	.263	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
06	<.004	<.002	<.005	.016	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003
Date	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
FEB 07 MAR	E.075	<.005	<.005	<.02	.008	<.009	<.005	<.003	<.004	<.035	<.027	.025	<.006
15 APR	E.029	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.024	<.006
11 MAY	E.032	.008	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.073	<.006
16 JUN	E.188	E.003	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	1.45	<.006
14 JUL	E.063	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.138	<.006
11 SEP	<.006	.008	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.025	<.006
06	E.006	.015	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.007	<.006

### 08064100 Chambers Creek near Rice, TX--Continued

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Date	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)
FEB 07 MAR 15 APR 11 MAY 16 JUN 14 JUL 11 SEP 06	<.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	<.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	E.001 <.003 <.003 <.003 <.003 <.003 <.003	<.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	<.006 <.006 <.006 <.006 <.006 <.006 <.006	<.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	<.010 <.010 <.010 .050 <.010 <.010 <.010 <.010	<.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	M <.01 <.01 M <.01 <.01 <.01 <.01 <.01 <.01	<.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	<.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	<.02 <.02 <.40 <.02 <.02 <.02 <.02 <.02	<.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004
		Da	te	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)			
		MAR 1 APR 1 MAY 1 JUN 1 JUN 1 SEF	5 1 6	.038 .018 .056 .034 E.009 E.007	.02 E.01 .02 E.01 E.01 <.02	<.034 <.034 <.034 <.034 <.034 <.034 <.034	<.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	<.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	<.009 <.009 <.009 <.009 <.009 <.009 <.009			

08064100 Chambers Creek near Rice, TX--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 25	1130	20		7.7	20.0	5.9		<2.0	190	48	68.2	3.85	37.2
NOV 08	1200	12	708	7.7	16.9	5.9	61						
DEC 03 13	1300 0920	21 34	764	7.7 8.1	10.9 10.0	9.7 9.2	89	2.2	230	 41	 84.5	 5.21	 53.8
JAN 07	1200	618	315	8.2	7.3	12.5	104						
FEB 12	1230	888	361	8.1	9.1	12.1	105						
MAR 04 12 19 25 APR	1500 1500 1300 1230	68 59 60 443	571 604 630 423	8.2 8.2 8.0 8.1	6.4 14.6 16.8 15.5	12.8 10.9 9.0 9.5	103 108 94 96	  	  	  	  	  	  
01 04 08 15 22	1300 0945 1300 1200 1200	1480 758 888 575 797	381 394 396 419 399	8.0 8.1 8.1 8.2 8.3	16.6 16.0 16.2 19.9 22.2	8.9 11.5 9.3 9.2 9.0	92 116 97 104 103	2.5  	150  	17  	55.9  	2.59  	17.8  
MAY 06 13 20 21 28	1130 1130 1100 1015 1230	317 298 59 49 32	445 451 583 592 690	7.9 7.8 7.9 8.0 7.5	24.7 16.2 21.6 21.5 24.5	7.1 7.9 8.7 7.1 5.8	86 80 99 80 71	  e 	   220 	   52 	  80.0	   5.07	  39.0
JUN 03 10 18 26 JUL	1500 1115 1000 1045	52 24 16 7.7	535 650 735 721	7.3 7.0 7.4 7.4	28.0 27.8 25.7 27.9	6.5 5.1 5.2 5.3	85 66 65 68	  	  	  	  	  	  
08 09 22	1130 1002 1100	36 28 102	459 482 383	7.6 7.6 7.8	29.0 29.0 29.4	5.4 9.3 6.6	70 124 86	3.2	180 	70 	65.7 	4.28 	29.4 
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
ОСТ 25	AD- SORP- TION RATIO	PERCENT	SIUM, DIS- SOLVED (MG/L AS K)	BONATE WATER DIS IT FIELD MG/L AS CO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 25 NOV 08	AD- SORP- TION RATIO (00931)	PERCENT (00932)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
OCT 25 NOV 08 DEC 03	AD- SORP- TION RATIO (00931)	PERCENT (00932)  30	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 138 172 190	DIS- SOLVED (MG/L AS SO4) (00945) 2.5	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1 55.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
OCT 25 NOV 08 DEC 03 13 JAN 07	AD- SORP- TION RATIO (00931)	PERCENT (00932) 30	SIUM, DIS- SOLVED (MG/L AS K) (00935)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12	AD- SORP- TION RATIO (00931)	30 33	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.19  3.67	BONATE WATER DIS IT FIELD MG/L AS (00452) <1 1	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  168 232	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  138 172 190 192	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1 55.3 52.7 50.1	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.18	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  80 24
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB	AD- SORP- TION RATIO (00931) 1 2	30 33	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.19  3.67	BONATE WATER DIS IT FIELD MG/L AS C03 (00452) <1 1	BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)  168 232	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 138 172 190 192	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1 36.1	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1 55.3 52.7 50.1	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.18  4.94	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)  228 411	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  80 24
OCT 25 NOV 08 DEC 13 JAN 07 FEB 12 MAR 04 12 19 25	AD- SORP- TION RATIO (00931) 1 2 2	3033	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.19   3.67	BONATE WATER DIS IT FIELD MG/L AS C03 (00452)  <1 1 1	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  168 232	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  138 172 190 192 114 116	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1 36.1 41.3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1 55.3 52.7 50.1 14.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.18  4.94	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)  228 411	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  80 24
OCT 25  NOV 08  DEC 03 13  JAN 07  FEB 12  MAR 04 12  APR 01 04 04 15  APR 01	AD- SORP- TION RATIO (00931) 1 2 2	PERCENT (00932)  30 33 31	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.19  3.67	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)  <1 1 1 1 1	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  168 232	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  138 172 190 192 114 116 183	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1 36.1 41.3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 14.1 55.3 52.7 50.1 14.3 12.6	RIDE, DIS- SOLVED (MG/L AS F) (00950) .4  .5	DIS- SOLVED (MG/L AS SIO2) (00955) 9.18  4.94 	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 330   434  	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)  228 411	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  8024
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 25 APR 01 04 04 08 15 22 MAY 06 13 20 21 22	AD- SORP- TION RATIO (00931) 1 2     .6	30 33 20	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.19  3.67       3.32	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) <1 1 1 1 1 1 1	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  168 232 161 161	LINITY WAT DIS TOT IT FIELD MG/L AS CACC3 (39086)  138 172 190 192 114 116 183 134 144	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1 36.1 41.3  81.6   38.4 38.6	RIDE, DIS- SOIVED (MG/L AS CL) (00940) 14.1 55.3 52.7 50.1 14.3 12.6 	RIDE, DIS- SOLVED (MG/L AS F) (00950) .4  .5	DIS- SOLVED (MG/L AS SIO2) (00955) 9.18  4.94          	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)  330 434 230 230	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)  228 411 222 222	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  8024 274 274 274
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06 13 13 20 21	AD- SORP- TION RATIO (00931) 1 2   .6   .6	PERCENT (00932)  30 33 20 27	SIUM, DIS- SOLVED (MG/L AS K) (00935)  4.19 3.67 3.32 3.32 3.58	BONATE WATER WATER DIS IT FIELD MG/L AS CO3 (00452) <1 1 1 1 1 2	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)  168 232 161 202	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)  138 172 190 192 114 116 183 134 144 136 169	DIS- SOLVED (MG/L AS SO4) (00945) 2.5 109 121 92.1 36.1 41.3  81.6   38.4 38.6   85.5 85.7	RIDE, DIS- DIS- SOIVED (MG/L AS CL) (00940)  14.1  55.3  52.7 50.1  14.3  12.6  27.8 12.2 12.3 14.6 29.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .4 .5  .3   .3 	DIS- SOLVED (MG/L AS SIO2) (00955)  9.18 4.94 5.74 5.95	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)  330 434 230 230 358	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)  228 411 222 351	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)  80 24 274 274 444

### 08064100 Chambers Creek near Rice, TX--Continued

				~					EMDER 200				
Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
OCT 25	1.17	.022	1.20	<.04				.48			<.06	<.02	
NOV 08		<.008	.10	<.04	.62				.52	.058		<.02	
DEC 03		<.008	.12	<.04	.65				.53	.055		<.02	
13 JAN		E.006	.34	E.03				.33			.007	<.02	
07 FEB	.48	.009	.49	E.03	1.1				.61	.081		.02	.055
12 MAR	.79	.057	.85	<.04	1.5				.69	.092		<.02	
04 12 19 25 APR	  -98	<.008 E.004 E.004 .039	1.02 .75 .49 1.02	<.04 <.04 <.04 E.04	1.3 1.0 .84 2.0	  	  	  	.25 .30 .35 .93	.020 .023 .033 .178	  	<.02 <.02 <.02 <.02	  
01 04	1.75 1.19	.098 .109	1.84 1.30	.06 .11	3.4	1.5	 .36	 .47	1.6	.67	 E.04	.02	.061 .276
08 15	1.28 .77	.051	1.33	<.04 <.04	2.5 1.5				1.1 .76	.35 .126		<.02 <.02	
22 MAY	.66	.015	.68	<.04	1.3				.58	.113		<.02	
06 13	1.22 .84	.078 .026	1.30 .87	.07 <.04	2.7 1.7	1.3			1.4 .81	.31 .144		E.01 <.02	
20 21		<.008 <.008	.36 .33	<.04 <.04	.92 			.29	.56 	.070	.006	<.02 <.02	
28 JUN		<.008	.15	<.04	.74				.58	.084		<.02	
03 10	1.19	.014 E.004	1.20	<.04 <.04	2.0 .87				.81 .75	.141		<.02 <.02	
18 26 JUL		<.008 <.008	<.05 <.05	<.04 <.04					.61 .76	.091 .077		<.02 <.02	
08 09 22	.41  	.010 E.006 <.008	.42 .37 <.05	<.04 <.04 <.04	1.3	 	 	 .42 	.86  .69	.159  .111	.019	E.01 E.01 <.02	 
Date	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
OCT 25	ORGANIC TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	MENT, SUS- PENDED (MG/L)	INUM, DIS- SOLVED (UG/L AS AL)	MONY, DIS- SOLVED (UG/L AS SB)	DIS- SOLVED (UG/L AS AS)	DIS- SOLVED (UG/L AS BA)	LIUM, DIS- SOLVED (UG/L AS BE)	DIS- SOLVED (UG/L AS CD)	MIUM, DIS- SOLVED (UG/L AS CR)	DIS- SOLVED (UG/L AS CO)
OCT 25 NOV 08	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SB) (01095)	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010)	DIS- SOLVED (UG/L AS CD) (01025)	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)
OCT 25 NOV 08 DEC 03	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SB) (01095)	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010)	DIS- SOLVED (UG/L AS CD) (01025)	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)
OCT 25 NOV 08 DEC	ORGANIC TOTAL (MG/L AS C) (00680)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 1.9 2.1	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)  47	INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SB) (01095)	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010) <.06	DIS- SOLVED (UG/L AS CD) (01025)	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12	ORGANIC TOTAL (MG/L AS C) (00680) 9.8   65.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)  47 47	INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SB) (01095) .31  .15	DIS- SOLVED (UG/L AS AS) (01000) 4  2	DIS- SOLVED (UVFL) (AS BA) (01005) 64  -73	LIUM, DIS- SOLVED (UG/L AS BE) (01010) <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035) .28   .34
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04	ORGANIC TOTAL (MG/L AS C) (00680) 9.8   65.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)  47 47  49 79	INUM, DIS- SOLVED (UG/L AS AL) (01106) <1  <1  <1	MONY, DIS- SOLVED (UG/L AS SB) (01095) .31  .15	DIS- SOLVED (UG/L AS AS) (01000) 4  2  2	DIS- SOLVED (UG/L AS BA) (01005) 64  -73	LIUM, DIS- SOLVED (UG/L AS BE) (01010) <.06  <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04  <.04 	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8  <.8	DIS- SOLVED (UG/L AS CO) (01035) .28  -34 
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12	ORGANIC TOTAL (MG/L AS C) (00680) 9.8   65.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7  81.8 189	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1	MONY, DIS- SOLVED (UG/L AS SB) (01095) .31  -5.15	DIS- SOLVED (UG/L AS AS) (01000) 4 2 2	DIS- SOLVED (UG/L AS BA) (01005) 64  73 	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04  <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8  <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834
OCT 25 NOV 08 DEC 03 JAN 07 FEB 12 MAR 04 12 19 APR	ORGANIC TOTAL (MG/L AS C) (00680) 9.8   65.1   	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1  2.8 	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .311515	DIS- SOLVED (UG/L AS AS) (01000) 4  2  2	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010) <.06  <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04  <.04  	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8  <.8  <.8	DIS- SOLVED (UG/L AS CO) (01035) .28  .34 
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 19 25 APR 01 04	ORGANIC TOTAL (MG/L AS C) (00680) 9.8  65.1     10.0	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1  2.8  	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7  81.8 189  	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79	INUM, DIS- SOLVED (UG/L AS AL) (01106) <1  <1  <1	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .31151520	DIS- SOLVED (UG/L AS AS) (01000) 4  2  2	DIS- SOLVED (UG/L AS BA) (01005)  6473 49	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06 <.06 < <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04 <.04  <.04  <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8  <.8   <.8	DIS- SOLVED (UG/L AS CO) (01035)  .283434
OCT 25 NOV 08 DEC 03 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 01	ORGANIC TOTAL (MG/L AS C) (00680) 9.8   65.1     10.0	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1  2.8    4.5 	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7  81.8 189     1200	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79 499	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	MONY, DIS- SOLVED (UG/L AS SB) (01095) .31  .15	DIS- SOLVED (UG/L AS AS) (01000) 4 2 2 3 	DIS- SOLVED (UG/L AS BA) (01005)  64 73 49	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04 <.04  <.04  	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8  <.8   <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY	ORGANIC TOTAL (MG/L AS C) (00680) 9.8  65.1     10.0	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1  2.8   4.5	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2i	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189 1200 1200	MENT, SUS-, PENDED (MG/L) (80154)  47  47 49 499 499	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1 <1 <1 < < < < < <	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .31151515	DIS- SOLVED (UG/L AS AS) (01000) 4  2  2  3	DIS- SOLVED (UG/L AS BA) (01005)  64 73 49	LIUM, DIS- SOLVED (UG/L AS BE) (01010) <.06  <.06       	DIS- SOLVED (UG/L AS CD) (01025) <.04 <.04 <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030) <.8 <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 129 25 APR 01 04 04 15 APR 01 04 08 15 22 MAY 06	ORGANIC TOTAL (MG/L AS C) (00680)  9.8  65.1  10.0 1	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8  3.6 4.1  2.8   4.5 	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189 1200 1200 239 200	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79 499 279 249	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 < <	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .3115152020	DIS- SOLVED (UG/L AS AS) (01000) 4  2  2  3 	DIS- SOLVED (UG/L AS BA) (01005)  64 73 49	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025)  <.04 <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030)  <.8 <.8 <.8 <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834
OCT 25 NOV 08 DEC 03 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 01 04 04 04 05 APR 01 04 04 06	ORGANIC TOTAL (MG/L AS C) (00680)  9.8  65.1  10.0 10.0	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8 3.6 4.1 2.8 4.5	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7  81.8 189    1200  1200	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79 499 279	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .3115152020	DIS- SOLVED (UG/L AS AS) (01000) 4 2 3 3 3 3	DIS- SOLVED (UG/L AS BA) (01005)  64  73 49 49	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025) <.04 <.04  <.04  	MIUM, DIS- SOLVED (UG/L AS CR) (01030)  <.8 <.8 <.8 <.8	DIS- SOLVED (UG/L AS CO) (01035)  .28342424
OCT     25 NOV     08 DEC     03 JAN     07 FEB     12 MAR     04 12 19 25 APR     01 04 08 15 22 MAY     06 13 21 28 JUIN     03	ORGANIC TOTAL (MG/L AS C) (00680)  9.8  65.1  10.0 5.7	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7  4.8 3.6  4.1 2.8 4.5 4.5 4.5	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189 1200 1200 1200 1100 1200	MENT, SUS- PENDED (MG/L) (80154)  47  47 49  79 499 279 249 84 120 89	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .31151520151515	DIS- SOLVED (UG/L AS AS) (01000)  4 2 3 E1	DIS- SOLVED (UG/L AS BA) (01005)  6473 49 62 62	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06 <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025)  <.04 <.04 <.04 <.04 <.04 <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030)  <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834243737
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 08 15 APR 01 04 08 22 MAY 06 15 22 MAY 06 15 22 MAY 06 13 20 21 JUN 03 10	ORGANIC TOTAL (MG/L AS C) (00680)  9.8  65.1  10.0 5.7	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8 3.6 4.1 2.8 4.5 4.5 4.5 4.5 4.5 4.5 4.5	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2 1 1 1 2.4 2.4 2.4 2.4	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189 1200 1200 1200 10.4 12.5 5.2 5.4	MENT, SUS- PENDED (MG/L) (80154)  47  47 49  79 499 279 249 84 120 89 81 124	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 < <1 < < < <	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .3115152015151515	DIS- SOLVED (UG/L AS AS) (01000)  4 2 3 E1	DIS- SOLVED (UG/L AS BA) (01005)  6473 49 62 62	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025)  <.04 <.04 <.04 <.04 <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030)  <.8 <.8	DIS- SOLVED (UG/L AS CO) (01035)  .283424373737
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 129 25 APR 01 04 04 15 22 MAY 06 13 22 MAY 06 13 21 21 28 JUN 03	ORGANIC TOTAL (MG/L AS C) (00680)  9.8  65.1  10.0 5.7	ORGANIC DIS- SOLVED (MG/L AS C) (00681)  5.7 4.8 3.6 4.1 2.8 4.5 4.5 4.5 4.5	ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)  1.9 2.1 2.4 4.1 1.2 1.5 1.2 -	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)  1.5 2.7 81.8 189 1200 1200 13.4 12.5 5.2	MENT, SUS- PENDED (MG/L) (80154)  47 47 49 79 499 279 249 84 120 89 81	INUM, DIS- SOLVED (UG/L AS AL) (01106)  <1 <1 <1 <1 <1 <2 <1 <1 <1 <1 <1 < <1 < < < < <	MONY, DIS- SOLVED (UG/L AS SB) (01095)  .311515151515151515151515	DIS- SOLVED (UG/L AS AS) (01000)  4 2 3 1 1 E1	DIS- SOLVED (UG/L AS BA) (01005)  6473 49 62 62	LIUM, DIS- SOLVED (UG/L AS BE) (01010)  <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	DIS- SOLVED (UG/L AS CD) (01025)  <.04 <.04 <.04 <.04 <.04 <.04 <.04	MIUM, DIS- SOLVED (UG/L AS CR) (01030)  <.8 <.8	DIS- SOLVED (UG/L AS CO) (01035)  .2834243737

TRINITY RIVER BASIN 281
08064100 Chambers Creek near Rice, TX--Continued

Part	Date	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)
Dec		2.1	E6	<.08	7.5	<.01	4.5	1.89	<2	<1	<1	1.60		
10	08												<.002	<.004
12	03													
PSB	JAN													
MART	FEB													
12	MAR													
Mart	12												<.006	<.006
04.	APR													
15	04	1.7	<10	<.08	.6	<.01	2.4	2.44	<2	<1	<1	1.11		
MAY	15												<.006	.006
131.	MAY													
The color of the	13												<.006	<.006
10	21													
18.	03													
December   December	18												<.006	<.006
OPE   CALCADA   CALCADA	JUL													
Part	09											1.30		
Color														
OBC   COUNTY   COUN	Date	CHLOR, WATER, DISS, REC, (UG/L)	BHC DIS- SOLVED (UG/L)	ZINE, WATER, DISS, REC (UG/L)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	ATE, WATER, DISS, REC (UG/L)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	PYRIFOS DIS- SOLVED (UG/L)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L)	ZINE, WATER, DISS, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)
OB   Color	OCT	CHLOR, WATER, DISS, REC, (UG/L) (46342)	BHC DIS- SOLVED (UG/L)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	PYRIFOS DIS- SOLVED (UG/L) (38933)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
SAN	OCT 25 NOV 08	CHLOR, WATER, DISS, REC, (UG/L) (46342)	BHC DIS- SOLVED (UG/L) (34253)	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLITRD 0.7 U GF, REC (UG/L) (82680)	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)	PYRIFOS DIS- SOLVED (UG/L) (38933)	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
Tebs	OCT 25 NOV 08 DEC 03	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002	BHC DIS- SOLVED (UG/L) (34253) <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010	ATE, WATER, DISS, REC (UG/L) (04028)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674) <.020 <.020	PYRIFOS DIS-SOLVED (UG/L) (38933)  <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLIRD 0.7 U GF, REC (UG/L) (82682)  <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
04	OCT 25 NOV 08 DEC 03 13 JAN	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.002	BHC DIS- DIS- SOLVED (UG/L) (34253)  <.005	ZINE, WATER, DISS, REC (UG/L) (39632)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)  <.041 -	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674)	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006 	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018	WATER FLIRD 0.7 U GF, REC (UG/L) (82682)  <.003 	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064
19	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.002	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518  .498	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050  <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010  <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041  <.041	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006  <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051
APR 01	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.002 <.004 <.004 <.004	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518  .498 .916	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050  <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005  <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006  <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051 E.059 E.037
04 08 1111	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 .010	BHC DIS- DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518  .498 .916 .414 .400 .382	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002  <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005  <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003  <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051 E.059 E.037 E.021 E.015
15	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.002 <.004 <.004 <.010 .010 .407	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005  <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006  <.006  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051 E.059 E.037 E.021 E.015 E.062
06	OCT 25 NOV 08 DEC 13 JAN 07 FEB 12 MAR 04 12 12 APR 01 04	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.002 <.004 <.004 <.004 <.010 .010 .010 .407	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76 7.49	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLIRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 020 020 174 174	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005  <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)  <.006  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 0	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051 E.059 E.037 E.021 E.021 E.062 E.186
20	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 01 01	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 010 .010 .407  1.61 1111 .069	BHC DIS- DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76 7.49 4.71 1.97	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 E.070 E.174 E.050 E.032	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064  E.051 E.059 E.037 E.021 E.015 E.062 E.186  E.104 E.060
28 0.025	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 <.010 .010 .407  1.61111 .069 .166 .599	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76 7.49 4.71 1.97 1.45	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITTED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064 E.051 E.059 E.037 E.021 E.015 E.062 E.186 E.104 E.060 E.041 E.227
03	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 APR 01 04 08 15 APR 01 04 08 15 22 MAY 06	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 <.010 .010 .407  1.61111 .069 .166 .599 .039 .058	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76 7.49 4.71 1.97 1.45 4.53 1.56 .546	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 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26	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06 13 20 21 MAY 20 21	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 <.010 .010 .407  1.61111 .069 .166 .599 .039 .058	BHC DIS- DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76 7.49 4.71 1.97 1.45 4.53 1.56 .546	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITTED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 E.070  E.174 E.050 E.032 <.020 E.228 E.007 E.003	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166 E.064 E.051 E.059 E.037 E.021 E.015 E.062 E.186 E.104 E.060 E.041 E.227 E.157 E.097
09	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 08 22 MAY 06 13 220 MAY 06 13 21 22 MAY 06 13 21 22 MAY 06 13 21	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 <.004 <.010 .010 .407  1.61111 .069 .166 .599 .039 .058025 .238 .032	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76  7.49 4.71 1.97 1.45 4.53 1.56 .546963 1.22 .793	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	BARYL WATER FITTED 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 E.070  E.174 E.050 E.032 <.020 E.070  E.228 E.007 E.003 <.020 <.020 <.020 C.020 C.020 C.020 C.020 C.020 C.020 C.020 C.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166  E.064 E.051  E.059  E.037 E.021 E.015 E.062  E.186 E.104 E.060 E.186 E.104 E.227 E.157 E.097 E.122 E.312 E.312
22 <.004 <.005 .800 <.050 <.010 <.002 <.041 <.020 <.005 <.006 <.018 <.003 E.143	OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 08 15 22 MAY 06 13 22 MY 06 13 21 22 MY 06 13 21 22 MY 06 13 21 22 JUN 03 10 18 26 JUL	CHLOR, WATER, DISS, REC, (UG/L) (46342)  <.002 <.004 <.004 <.004 <.004 <.010 .010 .407  1.61111 .069 .166 .599 .039 .058025 .238 .032 .007r	BHC DIS- SOLVED (UG/L) (34253)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ZINE, WATER, DISS, REC (UG/L) (39632)  2.62 .518498 .916 .414 .400 .382 3.76  7.49 4.71 1.97 1.45 4.53 1.56 .546963 1.22 .793 .443 r	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	ATE, WATER, DISS, REC (UG/L) (04028)  <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 < < < < < < < < <	BARYL WATER FITTRD 0.7 U GF, REC (UG/L) (82680)  <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041	FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)  <.020 <.020 <.020 <.020 <.020 <.020 <.020 E.070  E.174 E.050 E.032 <.020 E.070  E.228 E.007 E.003 <.020 <.020 <.020 <.020	PYRIFOS DIS- SOLVED (UG/L) (38933)  <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	METHRIN CIS WAT FIT 0.7 U GF, REC (UG/L) (82687)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ZINE, WATER, DISS, REC (UG/L) (04041)  <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	WATER FLITRD 0.7 U GF, REC (UG/L) (82682)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)  E.166  E.064 E.051  E.059  E.037 E.021 E.015 E.062  E.186 E.104 E.060 E.041  E.227 E.157 E.097 E.122  E.312 E.312 E.345 E.142r

### 08064100 Chambers Creek near Rice, TX--Continued

			WAIEK-	QUALITY L	MIN, WALL	ic illine oc	TODDIC 200	1 10 0011	DIADDIC 200	_			
Date	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
OCT													
25 NOV											01.7		
08 DEC	<.007	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.017	<.006	<.002
03 13	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035 	<.027 	E.007	<.006	<.002
JAN 07	E.004	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.023	<.006	<.002
FEB 12	<.007	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.041	<.006	<.002
MAR 04	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.011n	<.006	<.002
12 19	E.004n <.005	<.005	<.02	<.002	<.009	<.005 <.005	<.003	<.004	<.035 <.035	<.027 <.027	E.008n .028	<.006	<.002
25 APR	.012	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.302	<.006	<.002
01	.009	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.540	<.006	<.002
08 15 22 MAY	.007 .009 .031	<.005 <.005 <.005	<.02 <.02 <.02	<.002 <.002 <.002	<.009 <.009 <.009	<.005 <.005 <.005	<.003 <.003 <.003	<.004 <.004 <.004	<.035 <.035 <.035	<.027 <.027 <.027	.442 .259 .050	<.006 <.006 <.006	<.002 <.002 <.002
06 13	.026	<.024 <.005	<.10 <.02	<.010 <.002	<.045 <.009	<.025 <.005	<.013 <.003	<.020 <.004	<.175 <.035	<.135 <.027	.148	<.030 <.006	<.008 <.002
20	E.003n	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.026	<.006	<.002
21 28 JUN	E.004n	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.024	<.006	<.002
03 10	.008	<.005 <.005	<.02 <.02	<.002 <.002	<.009 <.009	<.005 <.005	<.003 <.003	<.004 <.004	<.035 <.035	<.027 <.027	.024	<.006 <.006	<.002 <.002
18	<.005 r	<.005	<.02	<.002 r	<.009 r	<.005	<.003	<.004 r	<.035	<.027	E.011n r	<.006	<.002
JUL 08	.006	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	.013	<.006	<.002
09	<.005	<.005	<.02	<.020	<.009	<.005	<.003	<.004	<.035	<.027	.129	<.006	<.002
Date	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLIRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
OCT	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DDE DISSOLV (UG/L)	THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)	CHLOR, WATER, DISS, REC (UG/L)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	MAZINE, WATER, DISS, REC (UG/L)
OCT 25 NOV	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	DDE DISSOLV (UG/L) (34653)	THION, DIS- SOLVED (UG/L) (39542)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	METON, WATER, DISS, REC (UG/L) (04037)	CHLOR, WATER, DISS, REC (UG/L) (04024)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)	MAZINE, WATER, DISS, REC (UG/L) (04035)
OCT 25	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DDE DISSOLV (UG/L)	THION, DIS- SOLVED (UG/L)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L)	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER FLTRD 0.7 U GF, REC (UG/L)	METON, WATER, DISS, REC (UG/L)	CHLOR, WATER, DISS, REC (UG/L)	PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	MAZINE, WATER, DISS, REC (UG/L)
OCT 25 NOV 08 DEC 03 13 JAN	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 	ULATE WATER WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010	WATER FLTRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010	PANIL WATER FLITRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011	PARGITE WATER FLITRD 0.7 U GF, REC (UG/L) (82685)	AMIDE WATER FIITED 0.7 U GF, REC (UG/L) (82676)	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011
OCT 25 NOV 08 DEC 03 13 JAN 07	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) < .007 < .007	DDE DISSOLV (UG/L) (34653)  <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007  <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006  <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010  <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011  <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01  E.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02  <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011 
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003  <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006  <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010  <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011  <.011  <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011  .051
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006  <.006  <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010  <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 004 004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011  .051 .054 .006 <.005
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 19	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003  <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.002 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010  <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664) <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011  .051 .054
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 E.013n	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLITED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011  .051 .054 .005 <.005 <.005
OCT 25 NOV 08 DEC 03 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 04	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 Mm	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011  .051 .054 .006 <.005 <.005 .057
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 04 15 22	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003  <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010  <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 E.013n <.022 E.013n <.022 <.022 E.013n <.110	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.055	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.015	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 APR 01 04 08 15 APR 01 04 08 15 22 MAY 06	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 006<br 006<br </td <td>ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  &lt;.002 &lt;.004 &lt;.004</td> <td>METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  &lt;.010 &lt;.022 &lt;.022</td> <td>WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  &lt;.011 &lt;.011</td> <td>METON, WATER, DISS, REC (UG/L) (04037)  &lt;.01 &lt;.01 E.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 Unit conduction of the conduction of</td> <td>CHLOR, WATER, DISS, REC (UG/L) (04024)  &lt;.010 &lt;.010</td> <td>PANIL WATER FITTRD 0.7 U GF, REC (UG/L) (82679)  &lt;.011 &lt;.011</td> <td>PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02</td> <td>AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  &lt;.004 &lt;.004</td> <td>MAZINE, WATER, DISS, REC (UG/L) (04035)  &lt;.011 &lt;.011051 .054 .006 &lt;.005 &lt;.005 .057 .051058 .089 .264 .065 .065 .028</td>	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 Unit conduction of the conduction of	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 <.005 .057 .051058 .089 .264 .065 .065 .028
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 129 25 APR 01 04 04 15 APR 01 04 08 15 22 MAY 06 13 20 21 22	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 E.013n <.022 E.013n <.110 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 Mm <.01 Mn <.01 01 E.01 <.01 01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264 .065
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06 13 20 21 28 JUIN 03	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006  </td <td>ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  &lt;.002 &lt;.004 &lt;.004</td> <td>METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  &lt;.010 &lt;.022 &lt;.022</td> <td>WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  &lt;.011 &lt;.011</td> <td>METON, WATER, DISS, REC (UG/L) (04037)  &lt;.01 &lt;.01 E.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 Mn &lt;.01 E.01n &lt;.01 Mn &lt;.01 E.01n &lt;.07 E.01n Mn &lt;.01 &lt;.01 &lt;.07 E.01n Mn &lt;.01 &lt;.01 &lt;.01</td> <td>CHLOR, WATER, DISS, REC (UG/L) (04024)  &lt;.010 &lt;.010</td> <td>PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  &lt;.011 &lt;.011</td> <td>PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02 &lt;.02</td> <td>AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  &lt;.004 &lt;.004</td> <td>MAZINE, WATER, DISS, REC (UG/L) (04035)  &lt;.011 &lt;.011051 .054 .006 &lt;.005 .057 .051058 .089 .264 .065 .065 .065 .065 .028028</td>	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 Mn <.01 E.01n <.01 Mn <.01 E.01n <.07 E.01n Mn <.01 <.01 <.07 E.01n Mn <.01 <.01 <.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264 .065 .065 .065 .065 .028028
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06 13 22 MAY 06 13 21 JUN 03 10 18	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 Mn <.01 Mn <.01 01 <.01 01 <.01 01 <.01 01 <.01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264 .065 .065 .028028 .012 .019 .018
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 19 25 APR 01 04 08 15 22 MAY 06 13 24 JUN 03 10 18 26 JUL	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003 <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FIT 0.7 U GF, REC (UG/L) (82683)  <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 E.013n <.022 <.022 E.013n <.022 <.022 <.022 <.022 <.022	WATER FLIRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 Mm <.01 E.01n <.01 Mn <.01 C.01 <.01 C.01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FILTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <- <.004 <- <- <- <- <- <- <- <- <- <- <- <- <	MAZINE, WATER, VATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264 .065 .028028 .012 .019 .018 r
OCT 25 NOV 08 DEC 03 13 JAN 07 FEB 12 MAR 04 12 19 25 APR 01 04 08 15 22 MAY 06 15 22 MAY 06 13 15 21 28 JUIN 03 10 11	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)  <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653)  <.003	THION, DIS- SOLVED (UG/L) (39542)  <.007 <.007 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)  <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006	ULATE WATER FILITED 0.7 U GF, REC (UG/L) (82669)  <.002 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  <.010 <.010 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022 <.022	WATER FLITRD 0.7 U GF, REC (UG/L) (82664)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	METON, WATER, DISS, REC (UG/L) (04037)  <.01 <.01 E.01 <.01 <.01 <.01 <.01 <.01 <.01 Mn <.01 Mn <.01 01 <.01 01 <.01 01 <.01 01 <.01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01	CHLOR, WATER, DISS, REC (UG/L) (04024)  <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	PANIL WATER FITTRD 0.7 U GF, REC (UG/L) (82679)  <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011 <.011	PARGITE WATER WATER FLTRD 0.7 U GF, REC (UG/L) (82685)  <.02 <.02 <.02 <.02 <.02 <.02 <.02 <.02	AMIDE WATER FITTED 0.7 U GF, REC (UG/L) (82676)  <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	MAZINE, WATER, DISS, REC (UG/L) (04035)  <.011 <.011051 .054 .006 <.005 .057 .051058 .089 .264 .065 .065 .028028 .012 .019 .018

#### 08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670)	WATER FLTRD 0.7 U GF, REC (UG/L)	0.7 U GF, REC (UG/L)	WATER FLTRD	LATE WATER FLTRD 0.7 U GF, REC (UG/L)	FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L)
OCT 25						
NOV 08	E.01	<.041	<.02	<.005	<.002	<.009
DEC 03 13	E.02	<.034	<.02	<.005	<.002	<.009
JAN 07	.02	<.034	<.02	<.005	<.002	<.009
FEB 12 MAR	E.01n	<.034	<.02	<.005	<.002	<.009
04 12 19 25	<.02 E.01 <.02 E.01	<.034 <.034 <.034 <.034		<.005 <.005 <.005 <.005	<.002 <.002	<.009 <.009
APR 01 04	E.01n			<.005		
08 15 22	E.01n .02 E.03	<.034 <.034	<.02 <.02	<.005 <.005 <.005	<.002 <.002	<.009 <.009
MAY 06 13 20 21	<.02 E.01n	<.034 <.034	<.02	<.005 <.005	<.002 <.002	<.009 <.009
28 JUN 03	.03 E.02	<.034		<.005 <.005		
10 18 26	E.02 E.03 E.02	<.034 <.034 <.034 r		<.005 <.005 <.005 r	<.002	<.009
JUL 08 09				<.005		
22	.03	<.034	<.02	<.005	<.002	<.009

Remark codes used in this report:
<--- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report: n -- Below the NDV  $\,$ 

Null value qualifier codes used in this report: e -- Required equipment not functional/avail i -- Required sample type not received r -- Sample ruined in preparation

08064100 Chambers Creek near Rice, TX--Continued

SPECIFIC CONDUCTANCE (DCP 1788E306), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

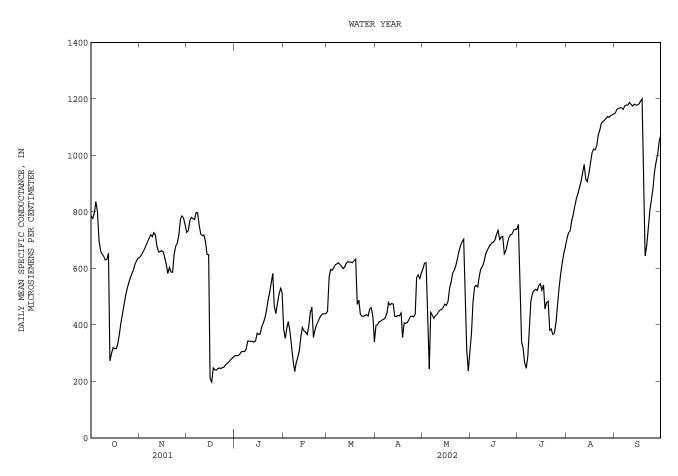
	SPECIFIC	CONDUCTA	MCE (DCF	1/00E300),	In US/	CM @ 25C,	WAIER YEA	R OCTOR	SER ZUUI	IO SEPIEMB	ER 2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER		DE	CEMBER			JANUARY	
1	799	761	785	641	637	639	740	722	728			e292
2	794	761	777	652	641	646	752	724	735			e292
3 4	825 873	767 825	798 837	664 672	652 664	657 668	783 784	752 777	768 781	292 314	291 291	291 297
5	875	723	801	686	672	680	781	769	777	306	304	305
6 7	723 683	683 647	697 663	700 710	686 700	694 706	786 803	768 786	774 798	308 307	305 305	307 306
8	654	646	650	725	707	719			e798	350	305	313
9	650	633	644	722	706	712			e753	350	341	343
10	634	628	630	732	708	726			e721	343	342	343
11	639	616	632	731	705	719	719	713	716	344	342	343
12	673	528	653	705	631	678	724	709	718	343	338	341
13 14	528 326	115 228	273 299	685 674	631 641	659 659	713	655 	697 e650	340 378	338 336	339 343
15	324	316	320	678	649	663	673	614	649	378	368	370
16 17	318 319	315 315	316 316	680 647	643 619	659 638	622 251	132 143	211 198	369 378	365 366	367 369
18	348	319	332	628	582	612	257	239	248			e393
19	392	348	368	588	574	582	246	239	241			e407
20	425	392	408	617	582	603	244	237	240			e425
21	457	425	442	605	575	587	248	244	246			e453
22	488	457	473	612	575	587			e247			e487
23	513	488	504	671	612	649			e246			e514
24 25	543 560	513 543	529 550	688 706	671 683	679 689			e249 e251			e548 e582
26	576	560	567			e719			e259	548	427	467
27 28	588 607	576 587	581 594			e774 e786			e265 e270	462 492	426 462	440 476
29	621	607	615			e779			e276	523	492	509
30	634	621	627		740	e753			e282	536	523	529
31	640	634	636						e287	538	320	515
MONTH	875	115	559			677			486			397
DAY	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY			MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
		FEBRUARY	•	I	MARCH			APRIL		MAX		
1 2	483 373	FEBRUARY 321 330	385 353	469 600	MARCH 441 469	447 568	412 407	APRIL 384 393	399 401		MAY 	e599 e618
1 2 3	483 373 400	FEBRUARY 321 330 373	385 353 389	469 600 600	MARCH 441 469 592	447 568 597	412 407 418	384 393 407	399 401 412	 	MAY  	e599 e618 e621
1 2 3 4	483 373 400 422	321 330 373 400	385 353 389 412	469 600 600 594	MARCH 441 469 592 592	447 568 597 593	412 407 418 416	384 393 407 410	399 401 412 413		MAY 	e599 e618 e621 e400
1 2 3 4 5	483 373 400 422 551	321 330 373 400 327	385 353 389 412 378	469 600 600 594 607	MARCH 441 469 592 592 594	447 568 597 593 602	412 407 418 416 420	384 393 407 410 414	399 401 412 413 418	  	MAY	e599 e618 e621 e400 e244
1 2 3 4 5	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378	469 600 600 594 607	MARCH 441 469 592 592 594 607	447 568 597 593 602	412 407 418 416 420	384 393 407 410 414	399 401 412 413 418	  	MAY	e599 e618 e621 e400 e244
1 2 3 4 5	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273	469 600 600 594 607 616 619	MARCH 441 469 592 592 594 607 614	447 568 597 593 602 613 616	412 407 418 416 420 423 432	384 393 407 410 414 418 419	399 401 412 413 418 420 427		MAY	e599 e618 e621 e400 e244 e445 e435
1 2 3 4 5 6 7 8 9	483 373 400 422 551 346 	321 330 373 400 327 315 	385 353 389 412 378 324 e273 e235 e265	469 600 600 594 607 616 619 624 616	MARCH 441 469 592 592 594 607 614 615 609	447 568 597 593 602 613 616 620 614	412 407 418 416 420 423 432 501 567	384 393 407 410 414 418 419 425 443	399 401 412 413 418 420 427 443 479	  	MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433
1 2 3 4 5 6 7 8	483 373 400 422 551 346	321 330 373 400 327 315 	385 353 389 412 378 324 e273 e235	469 600 600 594 607 616 619 624	MARCH  441 469 592 592 594  607 614 615	447 568 597 593 602 613 616 620	412 407 418 416 420 423 432 501	384 393 407 410 414 418 419 425	399 401 412 413 418 420 427 443	==== ==== ==== ====	MAY	e599 e618 e621 e400 e244 e445 e435 e424
1 2 3 4 5 6 7 8 9	483 373 400 422 551 346 	321 330 373 400 327 315 	385 353 389 412 378 324 e273 e235 e265	469 600 600 594 607 616 619 624 616	MARCH 441 469 592 592 594 607 614 615 609	447 568 597 593 602 613 616 620 614	412 407 418 416 420 423 432 501 567	384 393 407 410 414 418 419 425 443	399 401 412 413 418 420 427 443 479	   	MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433
1 2 3 4 5 6 7 8 9 10	483 373 400 422 551 346 	321 330 373 400 327 315  	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361	469 600 600 594 607 616 619 624 616 609	MARCH  441 469 592 592 594  607 614 615 609 600  597 600	447 568 597 593 602 613 616 620 614 607	412 407 418 416 420 423 432 501 567 475	384 393 407 410 414 418 419 425 443 458 472 429	399 401 412 413 418 420 427 443 479 471		MAY	e599 e618 e621 e400 e244 e445 e424 e433 e438 e447 e453
1 2 3 4 5 6 7 8 9 10	483 373 400 422 551 346  	321 330 373 400 327 315  	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392	469 600 600 594 607 616 619 624 616 609	MARCH  441 469 592 592 594  607 614 615 609 600  597 600 616	447 568 597 593 602 613 616 620 614 607	412 407 418 416 420 423 432 501 567 475 480 509 434	384 393 407 410 414 418 419 425 443 458 472 429 426	399 401 412 413 418 420 427 443 479 471 476 474 430		MAY	e599 e618 e621 e400 e244 e445 e424 e433 e438 e447 e453 e456
1 2 3 4 5 6 7 8 9 10 11 12 13 14	483 373 400 422 551 346 	321 330 373 400 327 315 	385 353 389 412 378 324 e273 e265 e265 e285 e310 e361 e392 e379	469 600 600 594 607 616 619 624 616 609 604 618 626 631	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620	447 568 597 593 602 613 616 620 614 607 600 606 619 624	412 407 418 416 420 423 432 501 567 475 480 509 434 436	384 393 407 410 414 418 419 425 443 458 472 429 426 426	399 401 412 413 418 420 427 443 479 471 476 474 430		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e438 e447 e453 e456 e462
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	483 373 400 422 551 346   	321 330 373 400 327 315   	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376	469 600 600 594 607 616 619 624 616 609 604 618 626 631 630	MARCH  441 469 592 594  607 614 615 609 600 597 600 616 620 618	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440	384 393 407 410 414 418 419 425 443 458 472 429 426 426 430	399 401 412 413 418 420 427 443 479 471 476 474 430 430 433		MAY	e599 e618 e621 e400 e244 e445 e424 e435 e424 e438 e447 e453 e456 e462 e474
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	483 373 400 422 551 346   	321 330 373 400 327 315   	385 353 389 412 378 324 e273 e265 e265 e285 e361 e361 e379 e376	1469 600 600 594 607 616 619 624 616 609 604 618 626 631 630	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428	399 401 412 413 418 420 427 443 479 471 476 474 430 433		MAY	e599 e618 e621 e400 e244 e445 e433 e438 e447 e453 e456 e462 e474
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	483 373 400 422 551 346   	321 330 373 400 327 315   	385 353 389 412 378 324 e273 e235 e265 e285 e361 e396 e366 e396	469 600 600 594 607 616 619 624 616 609 604 618 626 631 630	MARCH  441 469 592 592 594  607 614 615 609 600  597 600 616 620 618 619 615	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 440 511	384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e438 e447 e453 e456 e462 e474
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	483 373 400 422 551 346   	321 330 373 400 327 315   	385 353 389 412 378 324 e273 e265 e265 e285 e361 e361 e379 e376	1469 600 600 594 607 616 619 624 616 609 604 618 626 631 630	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 3566 407		MAY	e599 e618 e621 e400 e244 e445 e433 e438 e447 e453 e456 e462 e474
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	483 373 400 422 551 346   	321 330 373 400 327 315   	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e366 e396 e442	469 600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635	MARCH  441 469 592 594  607 614 615 609 600 616 620 618 619 615 625	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 440 511 415	384 393 407 410 414 418 419 425 443 458 472 429 426 426 430 428 365 317	399 401 412 413 418 420 427 443 479 471 476 474 430 430 433 432 443 356		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e447 e453 e456 e462 e474
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	483 373 400 422 551 346    	321 330 373 400 327 315    	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e366 e342 e463 e356	1469 600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640	MARCH  441 469 592 594  607 614 615 609 600 616 620 618 619 615 625 607 348	447 568 597 593 602 613 616 620 614 607 606 619 624 623 622 620 627 633 473	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 440 511 415 412 410	384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 402	399 401 412 413 418 420 427 443 479 471 476 474 430 430 433 432 443 356 407 405		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e456 e462 e474 e469 e483 e530 e553 e583
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	483 373 400 422 551 346    	321 330 373 400 327 315    	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e396 e4463 e356 e4463 e356	616 619 624 616 619 624 616 631 630 627 627 635 640 626	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619 615 625 607 348 421 426	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 440 511 415 410 413 434	384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 400 401 407 409	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 3566 407 405		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e438 e447 e453 e456 e462 e474 e469 e483 e553 e583 e593 e610
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e235 e265 e285 e361 e392 e379 e376 e366 e442 e463 e356 e384 e399 e411	469 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640 626	MARCH  441 469 592 592 594  607 614 615 609 600  597 600 616 620 618  619 615 625 607 348 421 426 430	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431	412 407 418 416 420 423 432 501 567 475 480 509 434 440 440 511 415 412 410 413 434 435	384 393 407 410 414 418 419 425 443 458 472 429 426 426 430 428 365 317 402 401 407 409 428	399 401 412 413 418 420 427 443 479 471 476 474 430 430 433 432 443 356 407 405 409 418 430		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e438 e447 e453 e456 e462 e474 e469 e483 e530 e553 e583 e610 e635
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	483 373 400 422 551 346     	321 330 373 400 327 315     	385 353 389 412 378 324 e273 e265 e285 e361 e392 e379 e376 e396 e442 e443 e342 e443 e356 e442 e443 e356 e442 e443 e356 e442 e443 e356 e366 e396 e442 e442 e443 e356 e366 e396 e346 e346 e346 e346 e346 e346 e346 e34	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 627 627 627 627 635 640 626	MARCH  441  469 592 594 607 614 615 609 600  597 600 616 620 618 619 615 627 348 421 426 430 430	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 410 411 415 412 410 413 434 435 433	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 402 401 407 409 428 428	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 356 407 405		MAY	e599 e618 e621 e400 e244 e445 e433 e438 e447 e456 e462 e474 e469 e483 e530 e553 e583 e593 e610 e635 e660
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e265 e265 e285 e361 e392 e379 e376 e366 e442 e442 e453 e356 e442 e442 e443 e442 e443 e443 e443 e443	469 600 594 607 616 619 624 616 609 604 618 626 631 630 627 635 640 626 597 500 433 432 435	MARCH  441 469 592 592 594  607 614 615 609 600  597 600 618 619 615 625 607 348  421 426 430 430 431	447 568 597 593 602 613 616 620 614 607 606 619 624 623 622 620 627 633 473 488 438 431 431	412 407 418 416 420 423 432 501 567 475 480 509 434 440 440 511 415 412 410 413 434 435 433 431	384 393 407 410 414 418 419 425 443 458 472 429 426 426 430 428 365 317 400 401 407 409 428 428 424	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 356 407 405 409 418 430 431 428		MAY	e599 e618 e621 e400 e244 e445 e435 e424 e433 e438 e447 e453 e456 e462 e474 e469 e680 e680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e265 e285 e265 e285 e310 e361 e392 e379 e376 e366 e3442 e443 e342 e443 e342 e443 e343 e34	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 627 635 640 626 597 500 433 432 435	MARCH  441  469 592 594 607 614 615 609 600  597 600 616 620 618 619 615 627 348 421 426 430 431 435	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431 433	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 410 411 415 412 410 413 434 435 433 431	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 402 401 407 409 428 428 424	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 356 407 405 409 418 430 431 428		MAY	e599 e618 e621 e400 e244 e445 e435 e438 e447 e456 e462 e474 e469 e483 e530 e553 e553 e660 e680 e694
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	483 373 400 422 551 346        	321 330 373 400 327 315	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e346 e346 e442 e4463 e356 e442 e443 e440 e440	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640 626 597 500 433 432 435	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619 615 625 607 348 421 426 430 430 431 435 428	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 433 433 436 432	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 411 415 410 413 434 435 431 431 431 431 431 431 432 433 433 431 431 432 433 433 434 436 436 437 437 437 437 437 437 437 437 437 437	APRIL  384 393 407 410 414 418 419 425 443 458  472 429 426 430  428 365 317 407 409 428 428 424 424 508	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 3566 407 405		MAY	e599 e618 e621 e400 e244 e445 e435 e425 e423 e447 e453 e456 e462 e474 e469 e483 e530 e553 e583 e610 e636 e680 e680
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e265 e285 e265 e285 e310 e361 e392 e379 e376 e396 e442 e443 e342 e443 e342 e443 e440 e440 e440 e440 e440 e440	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 627 635 640 626 597 500 433 432 435	MARCH  441  469 592 594 607 614 615 609 600  597 600 616 620 618 619 615 627 348 421 426 430 431 435	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431 433	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 410 411 415 412 410 413 434 435 433 431	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 402 401 407 409 428 428 424	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 356 407 405 409 418 430 431 428		MAY	e599 e618 e621 e400 e244 e445 e435 e438 e447 e456 e462 e474 e469 e483 e530 e553 e553 e660 e680 e694
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e346 e342 e463 e356 e442 e463 e356 e442 e463 e356 e440 e440 e440 e440 e440	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640 626 597 500 433 432 435 438 447 460 462 464	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619 615 625 607 348 421 426 430 431 435 428 447 459 295	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431 433 436 432 457 461 427	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 411 415 412 410 413 434 435 433 431 508 577 581 508	APRIL  384 393 407 410 414  418 419 425 443 458  472 429 426 430  428 365 317 402 401  407 409 428 424 508 560 560 560	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 3566 407 405 409 418 430 431 428 438 567 575 565 e584		MAY	e599 e618 e621 e400 e244 e445 e435 e435 e424 e447 e453 e456 e462 e474 e469 e483 e530 e553 e660 e680 e694 e703 e485 e313 e238
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e265 e285 e265 e285 e310 e361 e392 e379 e376 e396 e442 e443 e342 e443 e342 e443 e440 e440 e440 e440 e440 e440	1469 600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640 626 597 500 433 432 435 438 447 460 462	MARCH  441  469 592 594 607 614 615 609 600 597 600 616 620 618 619 615 627 348 421 426 430 431 435 428 447 459	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431 431 433 436 432 457 461	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 410 411 415 412 410 413 434 435 433 431 508 577 577	APRIL  384 393 407 410 414 418 419 425 443 458 472 429 426 430 428 365 317 402 401 407 409 428 428 424 508 560 560	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 356 407 405 409 418 430 431 428 438 567 577 565		MAY	e599 e618 e621 e400 e244 e445 e435 e425 e425 e447 e453 e456 e462 e474 e469 e483 e530 e553 e583 e636 e636 e636 e680 e694 e703 e488 e694 e703 e488 e694 e703 e694 e703 e694 e703 e694 e703 e694 e703 e694 e703 e703 e703 e703 e703 e703 e703 e703
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	483 373 400 422 551 346	321 330 373 400 327 315	385 353 389 412 378 324 e273 e235 e265 e285 e310 e361 e392 e379 e376 e346 e342 e463 e356 e442 e463 e356 e442 e463 e356 e440 e440 e440 e440 e440	600 600 594 607 616 619 624 616 609 604 618 626 631 630 627 627 635 640 626 597 500 433 432 435 438 447 460 462 464	MARCH  441 469 592 594 607 614 615 609 600 597 600 616 620 618 619 615 625 607 348 421 426 430 431 435 428 447 459 295	447 568 597 593 602 613 616 620 614 607 600 606 619 624 623 622 620 627 633 473 488 438 431 431 433 436 432 457 461 427	412 407 418 416 420 423 432 501 567 475 480 509 434 436 440 411 415 412 410 413 434 435 433 431 508 577 581 508	APRIL  384 393 407 410 414  418 419 425 443 458  472 429 426 430  428 365 317 402 401  407 409 428 424 508 560 560 560	399 401 412 413 418 420 427 443 479 471 476 474 430 433 432 443 3566 407 405 409 418 430 431 428 438 567 575 565 e584		MAY	e599 e618 e621 e400 e244 e445 e435 e426 e447 e453 e458 e462 e474 e469 e483 e530 e553 e660 e680 e694 e703 e485 e313 e238

### 08064100 Chambers Creek near Rice, TX--Continued

SPECIFIC CONDUCTANCE (DCP 1788E306), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1			e374			e756	719	686	704			e1150
2			e478			e562	745	717	726			e1160
3			e535			e338	757	718	733			e1170
4			e540			e320	782	757	768			e1170
5			e535			e267	803	782	789			e1170
6			e575			e246	831	803	819			e1160
7			e598			e290	854	831	846			e1180
8			e606			e382	873	851	865			e1180
9			e623			e485	897	871	887			e1180
10			e650			e512	919	897	907			e1190
11			e663	525	515	521	947	919	936			e1180
12			e673	536	518	527	991	947	969			e1180
13			e683	528	516	522	962	895	916			e1180
14			e690	546	528	539	917	897	908			e1180
15			e693	557	540	546	948	917	934			e1180
16			e700	558	474	523	994	948	972			e1180
17			e720	643	497	541	1020	994	1010			e1190
18			e735	602	376	456	1050	1010	1020			e1200
19			e702	497	468	480			e1020			e904
20			e711	1040	367	484			e1030			e644
21			e713	393	367	381			e1070			e682
22			e652	393	376	386			e1090			e744
23			e663	376	361	367			e1110			e807
24			e690	389	362	371			e1120			e844
25			e710	437	389	408			e1130			e882
26			e719	493	437	475			e1130			e944
27			e722	555	493	531			e1140			e978
28			e736	597	555	580			e1130			e1010
29			e739	642	597	620			e1140			e1050
30			e739	667	642	654			e1140			e1070
31				686	665	675			e1150			
MONTH			652			476			971			1060

#### e Estimated



### 08064100 Chambers Creek near Rice, TX--Continued

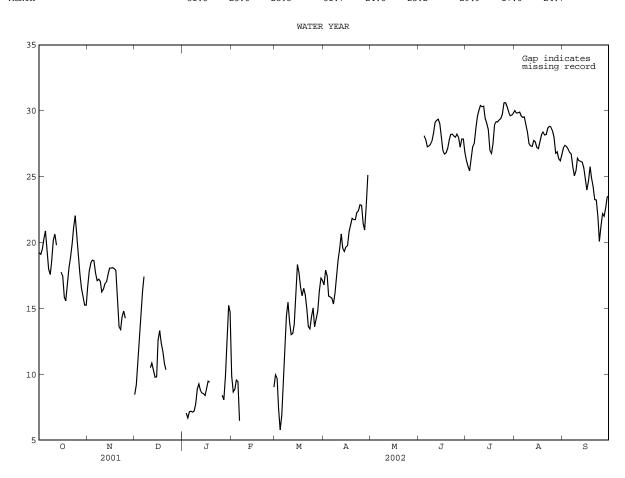
WATER TEMPERATURE (DCP 1788E306), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	WAIER	TEMPERATUR	KE (DCP	1/88E3U0),	III (DEC	GREES C),	WAIER IEAR	OCTOBER	K 2001	10 SEPTEMBE	R 2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	
1	19.9	18.4	19.2	17.4	15.7	16.6	8.9	8.0	8.5			
2	19.8	18.2	19.1	18.4	17.3	17.8		8.5	9.2	7.5		
3 4	20.3	18.6 19.5	19.5 20.3	19.0 19.1	18.0 18.2	18.5 18.7	11.4 13.4	10.0 11.4	10.6 12.5	7.4 7.0	6.7 6.5	7.1 6.7
5	21.4	20.3	20.9	19.0	18.2	18.6	15.5	13.4	14.5	7.4		7.2
_	20.2	10.0	10 5	10.2	17.0	10.0	10.1	15 4	16.2		6.0	7.0
6 7	20.3 18.8	18.8 17.1	19.5 18.0	18.3 17.5	17.2 16.6	17.7 17.1	17.1 17.9	15.4 17.0	16.3 17.4	7.7 7.7	6.8 6.7	7.2 7.1
8	18.4	16.8	17.6	17.8	16.6	17.2				7.6	6.8	7.2
9	19.6	18.0	18.6	17.7	16.4	17.1				8.8	7.0	7.7
10	21.4	19.4	20.2	16.5	16.0	16.2				9.5	8.2	8.9
11	21.2		20.6	16.9	16.0	16.4	10.7	10.4	10.5	9.6	8.8	9.3
12	20.8	19.0	19.8	17.1	16.7	16.9	11.3	10.5	10.8	9.4	8.3	8.8
13 14	19.6	16.9		17.5 18.1	16.6 17.0	17.0 17.6	10.9 10.1	10.1 9.4	10.3	9.1 9.1	8.0 8.1	8.6 8.5
15	18.4	17.4	17.8	18.2	17.9	18.1	10.4	9.6	9.8	8.7	8.1	8.4
16	18.0	16.3	17.5	18.3	17.8	18.1	13.4	10.3	12.6	9.6	8.5	9.0
17	16.3	15.2	15.9	18.3	17.9	18.1	13.5	12.9	13.3	9.9	9.2	9.5
18	16.2	15.0	15.6	18.5	17.5	18.0	12.9	12.1	12.4	9.7	9.1	9.4
19 20	17.4 18.9	16.1 17.2	16.7 18.1	18.3 17.1	17.1 14.7	17.9 15.8	12.4 11.8	11.4 10.4	11.7 10.8			
20	10.9	17.2	10.1	17.1	14.7	13.0	11.0	10.4	10.0			
21	19.5	18.1	18.9	14.7	13.2	13.6			10.3			
22 23	20.7 21.7	19.3 20.6	19.9 21.1	13.7 15.1	13.2 13.4	13.4 14.4						
24	22.6	21.6	22.0	15.2	14.4	14.8						
25	21.6	19.7	20.4	14.7	13.7	14.3				10.9		
26	19.7	18.3	18.9							8.9	7.8	8.4
27	18.3	17.2	17.7							8.9	7.2	8.1
28	17.2	16.2	16.6							11.0	8.9	9.8
29 30	16.2 15.6	15.5 14.8	15.9 15.2	8.8						13.9 16.2	11.0 13.9	12.5 15.2
31	15.7	14.7	15.3							15.9	9.6	14.7
MONTHE												
MONTH												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN		MIN APRIL	MEAN	MAX	MIN MAY	MEAN
		FEBRUARY			MARCH		i	APRIL			MAY	
DAY 1 2	MAX 10.9 9.6		9.9	MAX 10.4 10.5	MARCH 9.6	10			16.8	MAX 		MEAN
1 2 3	10.9 9.6 9.1	9.5 8.2 8.7	9.9 8.7 8.9	10.4 10.5 8.4	9.6 8.4 6.0	10 9.7 7.4	18.3 18.8 18.8	APRIL 15.9 16.9 16.5	16.8 17.9 17.5		MAY  	
1 2 3 4	10.9 9.6 9.1 9.9	9.5 8.2 8.7 9.0	9.9 8.7 8.9 9.6	10.4 10.5 8.4 6.4	9.6 8.4 6.0 5.0	10 9.7 7.4 5.8	18.3 18.8 18.8 16.5	15.9 16.9 16.5 15.5	16.8 17.9 17.5 15.9		MAY	  
1 2 3	10.9 9.6 9.1	9.5 8.2 8.7	9.9 8.7 8.9	10.4 10.5 8.4	9.6 8.4 6.0	10 9.7 7.4	18.3 18.8 18.8	APRIL 15.9 16.9 16.5	16.8 17.9 17.5		MAY  	
1 2 3 4 5	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9	MARCH  9.6 8.4 6.0 5.0 5.6 7.8	10 9.7 7.4 5.8 6.9	18.3 18.8 18.8 16.5 16.5	15.9 16.9 16.5 15.5 15.4	16.8 17.9 17.5 15.9 15.9	   	MAY	   
1 2 3 4 5	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3	9.6 8.4 6.0 5.0 5.6 7.8 10.4	10 9.7 7.4 5.8 6.9 9.0 11.8	18.3 18.8 18.8 16.5 16.5	15.9 16.9 16.5 15.5 15.4	16.8 17.9 17.5 15.9 15.9	   	MAY	
1 2 3 4 5	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9	MARCH  9.6 8.4 6.0 5.0 5.6 7.8	10 9.7 7.4 5.8 6.9	18.3 18.8 18.8 16.5 16.5	15.9 16.9 16.5 15.5 15.4	16.8 17.9 17.5 15.9 15.9	   	MAY	   
1 2 3 4 5 6 7 8	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4	18.3 18.8 18.8 16.5 16.5 16.2	15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5	16.8 17.9 17.5 15.9 15.9	   	MAY	
1 2 3 4 5 6 7 8 9	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6 6.0	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1	9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3	15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4	    	MAY	
1 2 3 4 5 6 7 8 9	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8	15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2	    	MAY	
1 2 3 4 5 6 7 8 9 10	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0	18.3 18.8 18.8 16.5 16.5 16.5 16.2 15.6 18.0 18.8 19.3	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7	     	MAY	======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14	10.9 9.6 9.1 9.9 10.0	9.5 8.2 8.7 9.0 7.6 6.0	9.9 8.7 8.9 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6		MAY	======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.9 9.6 9.1 9.9 10.0 7.6	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.3	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.0 13.1 13.8 16.0 18.3	18.3 18.8 18.8 16.5 16.5 16.5 19.3 20.1 21.3 20.2 19.9 20.3	15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7	      	MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.3	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3	APRIL 15.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7 19.0 18.9	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8 19.4	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.3	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.4 17.8  19.2 19.4 18.6 19.2 19.4 18.7 19.0 18.9 19.5	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7	       	MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0   	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8 19.4 18.1 17.2 16.4 17.0	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3 17.7 16.6 16.0 16.5	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.4	APRIL 15.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7 19.0 18.9 19.5 20.0 21.4	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.3		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8 19.4 18.1 17.2 16.4	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.2 16.0 15.6	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3	18.3 18.8 18.8 16.5 16.5 16.5 16.2 15.6 18.0 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.5	APRIL  15.9 16.9 16.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 18.7 19.0  18.9 19.5 20.0	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0   	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3 17.7 16.6 16.0 16.5	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.4	APRIL 15.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7 19.0 18.9 19.5 20.0 21.4	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.3		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0    	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0 15.4	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3 17.7 16.6 16.0 16.5 16.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.5 22.5 22.4 22.1	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.4 17.8 19.2 19.4 18.6 19.2 19.4 21.4 21.4 21.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 21.3 21.9 21.7 21.7 22.3		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4  12.7 12.5 12.8 14.8 17.3  17.2 16.0 15.6 16.0 15.4 14.4 12.8 13.1	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 16.5 16.0 14.9 13.6 13.5	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.5 22.4 22.1	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 18.7 19.0  18.9 19.5 20.0 21.4 21.4 21.4 21.6	16.8 17.9 17.59 15.9 15.9 15.8 16.2 17.4 18.7 19.6 20.7 19.6 19.3 21.3 21.9 21.7 22.3		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0    	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0 15.4	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3 17.7 16.6 16.0 16.5 16.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.5 22.5 22.4 22.1	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.4 17.8 19.2 19.4 18.6 19.2 19.4 21.4 21.4 21.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 21.3 21.9 21.7 21.7 22.3		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	10.9 9.6 9.1 9.9 10.0 7.6	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4  12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0 14.4 12.8 13.1 13.7 14.1	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 16.5 16.0 14.9 13.6 13.5 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 18.7 19.0  18.9 19.5 20.0 21.4 21.4 21.4 21.6 21.6 21.8 22.1	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7 21.7 22.8 22.4 22.9 22.8		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0        	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 14.8 17.3 17.2 16.0 15.6 16.0 15.4 14.4 12.8 13.7 14.1	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 18.3 17.7 16.6 16.5 16.0 14.9 13.6 13.5 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.5 22.4 22.1 22.0 22.9 23.9 23.4 22.1	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7 19.0 18.9 19.5 20.0 21.4 21.4 21.6 21.6 21.6 21.8 22.1	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.7 21.7 22.3 22.4 22.9 22.8		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	10.9 9.6 9.1 9.9 10.0 7.6	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4  12.7 12.5 12.8 17.3 17.2 16.0 15.6 16.0 14.4 12.8 13.1 13.7 14.1	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.8 16.0 16.5 16.0 14.9 13.6 13.5 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 20.3 22.5 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 18.7 19.0  18.9 19.5 20.0 21.4 21.4 21.4 21.6 21.6 21.8 22.1	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.6 19.3 19.7 21.7 22.8 22.4 22.9 22.8		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	10.9 9.6 9.1 9.9 10.0 7.6          -	9.5 8.2 8.7 9.0 7.6 6.0 	9.9 8.7 8.9 9.6 9.5 6.5          -	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 14.8 17.3 17.2 16.0 15.6 16.0 15.4 14.4 12.8 13.7 14.1 13.0 13.3 14.0 15.4	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.0 13.1 13.8 16.0 18.3 17.7 16.6 16.5 16.0 14.9 13.6 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4 22.1 21.8 22.1 22.1 22.1 22.1 22.6 23.9 23.4	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 18.6 18.7 19.0 18.9 19.5 20.0 21.4 21.4 21.6 21.8 22.1 20.8 20.3 21.7 23.9	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.7 21.7 22.3 22.4 22.9 22.8 21.4 20.9 22.8		MAY	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0          -	9.9 8.7 8.9 9.6 9.5 6.5          -	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.3 17.2 16.0 15.4 14.4 12.8 13.1 13.1 14.1 13.0 15.4 16.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.1 16.0 18.3 17.7 16.6 16.5 16.0 14.9 13.6 13.5 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4 22.1 21.8 24.1 26.6 26.6	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 19.2 19.4 21.4 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.7 21.7 22.3 22.4 22.9 22.8 21.4		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	10.9 9.6 9.1 9.9 10.0 7.6        9.3 10.2	9.5 8.2 8.7 9.0 7.6 6.0	9.9 8.7 8.9 9.6 9.5 6.5 	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 14.8 17.3 17.2 16.0 15.6 16.0 15.4 14.4 12.8 13.7 14.1 13.0 13.3 14.0 15.4 16.8 16.6	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.0 13.1 13.8 16.0 16.5 16.0 14.9 13.6 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4 22.1 21.8 22.1 24.1 26.6	APRIL 15.9 16.9 16.5 15.5 15.4 15.2 15.1 15.5 16.4 17.8 19.2 19.4 19.0 18.9 19.5 20.0 21.4 21.4 21.6 21.8 22.1 20.8 20.1 20.8 20.3 21.7 23.9 26.1	16.8 17.9 17.5 15.9 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.7 21.7 22.3 22.4 22.9 22.8 21.4 20.9 22.8		MAY	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	10.9 9.6 9.1 9.9 10.0 7.6 	9.5 8.2 8.7 9.0 7.6 6.0          -	9.9 8.7 8.9 9.6 9.5 6.5          -	10.4 10.5 8.4 6.4 7.9 10.4 13.3 15.2 16.1 14.8 13.5 14.3 15.3 17.8 19.4 18.1 17.2 16.4 17.0 16.9 15.5 15.4 13.8 14.9 15.5	MARCH  9.6 8.4 6.0 5.6 7.8 10.4 13.3 14.8 13.4 12.7 12.5 12.8 14.8 17.3 17.2 16.0 15.4 14.4 12.8 13.1 13.1 14.1 13.0 15.4 16.8	10 9.7 7.4 5.8 6.9 9.0 11.8 14.4 15.5 14.0 13.1 13.1 16.0 18.3 17.7 16.6 16.5 16.0 14.9 13.6 13.5 14.4 15.0	18.3 18.8 18.8 16.5 16.5 16.2 15.6 18.0 18.8 19.3 20.1 21.3 20.2 19.9 20.3 22.5 22.5 22.4 22.1 22.0 22.9 23.2 23.9 23.4 22.1 21.8 24.1 26.6 26.6	APRIL  15.9 16.9 16.5 15.5 15.4  15.2 15.1 15.5 16.4 17.8  19.2 19.4 18.6 19.2 19.4 21.4 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6	16.8 17.9 17.5 15.9 15.8 15.3 16.2 17.4 18.7 19.6 20.7 19.8 20.8 21.3 21.7 21.7 22.3 22.4 22.9 22.8 21.4		MAY	

### 08064100 Chambers Creek near Rice, TX--Continued

WATER TEMPERATURE (DCP 1788E306), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST			SEPTEMBE	R
1 2 3 4 5	28.3 28.7 28.1	  27.6 27.4	  28.1 27.8	26.6 26.2 25.6 27.5 28.1	25.9 25.3 25.0 25.6 26.2	26.2 25.8 25.4 26.2 27.2	31.7 31.7 31.2 31.5 31.0	28.9 28.5 28.8 28.8 28.3	30.0 29.8 29.8 29.9 29.6	29.3 29.9 29.3 29.0 28.4	25.0 25.2 25.4 25.7 25.2	27.2 27.4 27.3 27.1 26.8
6 7 8 9 10	27.8 27.9 28.1 28.4 29.3	26.4 26.7 26.8 27.3 27.7	27.3 27.3 27.4 27.7 28.3	28.3 29.4 30.7 30.9 31.1	26.6 27.9 28.6 29.0 29.6	27.5 28.6 29.6 30.0 30.4	31.3 31.3 29.7 29.8 28.7	28.0 28.0 28.1 26.9 26.7	29.5 29.5 29.0 28.3 27.5	28.6 26.9 25.6 27.0 28.5	24.9 24.9 24.7 24.3 24.5	26.7 25.8 25.1 25.5 26.4
11 12 13 14 15	30.1 30.1 30.3 29.9 28.8	28.4 28.6 28.6 27.9 27.0	29.1 29.3 29.4 29.0 28.0	31.0 31.4 30.0 29.9 29.3	29.5 29.7 28.8 28.2 28.1	30.3 30.3 29.4 29.0 28.6	29.1 28.7 29.3 28.6 27.8	25.9 26.1 26.5 26.8 26.7	27.3 27.3 27.7 27.7 27.2	28.2 28.3 27.7 27.4 25.6	24.4 24.3 24.6 23.9 23.7	26.2 26.2 26.1 25.6 24.8
16 17 18 19 20	28.0 27.8 27.9 28.1 28.8	26.4 25.6 25.7 26.2 26.9	27.0 26.7 26.8 27.1 27.8	28.1 27.3 28.7 29.9 29.6	26.4 26.3 26.2 28.2 28.4	27.0 26.8 27.5 28.9 29.2	28.8 29.2 30.2 29.9 29.8	25.8 26.3 26.6 26.9 26.6	27.1 27.7 28.2 28.4 28.2	25.2 27.4 27.3 25.3 26.3	23.3 22.8 24.6 24.3 22.4	24.0 24.7 25.8 24.9 24.2
21 22 23 24 25	29.3 29.1 29.0 28.8 29.1	27.2 27.3 27.1 27.1 27.2	28.2 28.2 28.1 28.0 28.2	29.3 29.6 29.8 31.0 31.8	28.9 29.0 29.2 28.6 29.6	29.1 29.3 29.4 29.7 30.6	30.0 30.5 31.2 30.8 31.0	26.6 27.0 26.8 26.9 26.8	28.2 28.7 28.8 28.8 28.5	25.6 25.5 23.9 22.4 23.9	21.0 21.5 19.9 17.0 18.9	23.3 23.2 21.9 20.1 21.2
26 27 28 29 30 31	28.7 28.1 28.7 28.3 27.6	27.4 26.4 27.2 27.4 26.5	28.0 27.2 27.9 27.9 26.9	31.6 31.1 30.4 30.0 31.1 31.3	29.6 29.3 29.2 29.1 28.7 28.8	30.6 30.3 29.9 29.6 29.7 29.8	30.2 28.3 28.9 27.5 28.0 28.6	26.3 25.8 25.1 24.9 24.0 24.6	28.0 26.8 26.9 26.4 26.2 26.7	24.9 25.2 25.7 26.1 26.1	20.2 18.7 19.4 20.9 21.6	22.2 22.0 22.7 23.5 23.6
MONTH				31.8	25.0	28.8	31.7	24.0	28.2	29.9	17.0	24.7



DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

#### 08064510 Halbert Lake near Corsicana, TX

 $\label{location.--Lat 32^04'36", long 96^24'20", Navarro County, Hydrologic Unit 12030109, on fishing pier approximately 1,000 ft upstream of dam on left bank, 4 mi southeast of Corsicana.$ 

DRAINAGE AREA. -- 12.0 mi<sup>2</sup>.

PERIOD OF RECORD. -- Apr. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfill dam 2,780 ft long. The dam was completed and storage began in 1921. An uncontrolled concrete chute spillway 175 ft long is located to the left (west) embankment. The dam was built by the city of Corsicana to impound water for municipal use. There was no known diversion from the lake during the current water year. Conservation pool storage is 6,033 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	375.0
Crest of spillway (top of conservation pool)	368.0

COOPERATION. -- Capacity table furnished by Texas Water Development Board survey Nov. 1999.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,530 acre-ft, Apr. 8, 2002, elevation, 367.12 ft; minimum contents, 2,670 acre-ft, Feb. 17, 18, 2000, elevation, 361,17 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,530 acre-ft, Apr. 8, elevation, 367.12 ft; minimum contents, 3,420 acre-ft, Nov. 27, elevation, 362.97 ft.

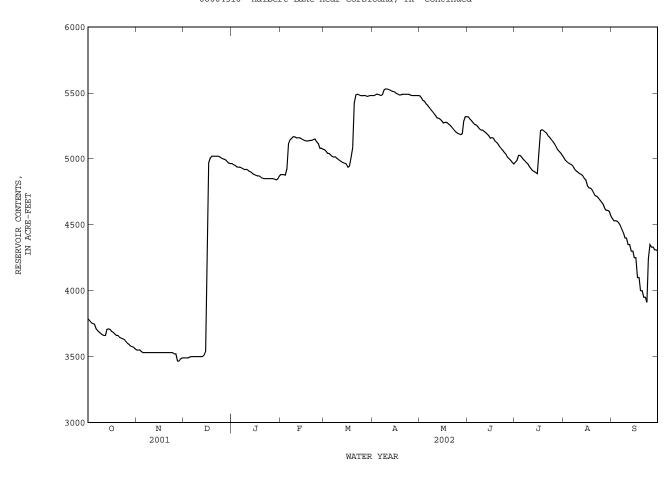
	R	ESERVOIR	STORAGE F	ROM DCP,		FEET), WA LY MEAN V		OCTOBER 2	001 TO SE	PTEMBER 2	002	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3780	3550	3490	4960	4880	5070	5480	5480	5320	4970	5010	4550
2	3770	3550	3490	4950	4880	5060	5480	5460	5300	4990	4990	4530
3	3760	3550	3490	4950	4880	5040	5490	5440	5290	5030	4980	4530
4	3750	3540	3490	4940	4880	5040	5490	5440	5270	5030	4970	4530
5	3740	3530	3500	4940	4920	5030	5480	5420	5260	5010	4960	4510
6	3710	3530	3500	4940	5120	5020	5480	5410	5260	5000	4950	4500
7	3700	3530	3500	4930	5140	5010	5490	5390	5240	4980	4940	4470
8	3690	3530	3500	4920	5160	5010	5520	5370	5230	4970	4920	4440
9	3680	3530	3500	4920	5170	5000	5530	5360	5220	4960	4910	e4400
10	3660	3530	3500	4920	5170	4990	5530	5340	5220	4940	4900	e4400
11	3660	3530	3500	4910	5160	4980	5520	5330	5210	4930	4890	e4350
12	3660	3530	3500	4900	5160	4980	5520	5310	5200	4910	4880	e4350
13	3710	3530	3500	4900	5160	4970	5510	5310	5190	4900	4870	e4300
14	3710	3530	3510	4890	5160	4960	5510	5300	5170	4900	4850	e4300
15	3710	3530	3540	4880	5150	4960	5510	5290	5160	4890	4840	e4250
16	3690	3530	4160	4870	5140	4940	5500	5270	5160	5060	4800	e4250
17	3680	3530	4970	4870	5140	4950	5490	5280	5160	5210	4780	e4100
18	3670	3530	5010	4870	5140	5010	5480	5280	5140	5220	4780	e4100
19	3660	3530	5020	4860	5140	5080	5490	5270	5130	5210	4770	e4000
20	3660	3530	5020	4850	5140	5420	5490	5260	5110	5200	4740	e4000
21	3650	3530	5020	4850	5140	5480	5490	5250	5090	5190	4720	e3950
22	3640	3530	5020	4850	5150	5490	5490	5230	5080	5170	4720	e3950
23	3640	3530	5020	4850	5150	5480	5490	5210	5060	5160	4700	e3910
24	3630	3530	5020	4850	5130	5480	5490	5200	5050	5140	4690	e4240
25	3620	3520	5010	4850	5120	5480	5480	5190	5040	5130	4670	e4350
26 27 28 29 30 31	3600 3590 3580 3580 3570 3560	3520 3470 3470 3480 3490	5000 5000 4990 4980 4970 4960	4850 4850 4850 4840 4850 4860	5080 5080 5070 	5480 5480 5470 5480 5480 5480	5480 5480 5480 5480 5480	5190 5180 5190 5290 5320 5320	5010 5000 4990 4970 4960	5110 5090 5070 5060 5040 5030	4660 4620 4610 4610 4600 4570	e4330 e4330 e4310 e4310 e4300
MEAN	3670	3520	4250	4890	5090	5190	5490	5310	5150	5050	4800	4290
MAX	3780	3550	5020	4960	5170	5490	5530	5480	5320	5220	5010	4550
MIN	3560	3470	3490	4840	4880	4940	5480	5180	4960	4890	4570	3910
(+)	363.26	363.11	366.07	365.88	366.28	367.03	367.03	366.74	366.07	366.19	365.31	e364.80
(@)	-220	-70	+1470	-100	+210	+410	0	-160	-360	+70	-460	-270
CAL YR	2001	MAX 5410	MIN 34	70 (@)	+140							

WTR YR 2002 MAX 5530 MIN 3470 (@) +520

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08064510 Halbert Lake near Corsicana, TX--Continued



#### 08064550 Richland-Chambers Reservoir near Kerens, TX

LOCATION.--Lat 32°02'25", long 96°12'23", Navarro County, Hydrologic Unit 12030109, on upper floor of pumphouse, on left bank of Chambers Creek arm of Richland-Chambers Reservoir, 7.0 mi south of intersection of State Highway 31 and Farm Road 309 in Kerens, and 14.4 mi upstream from dam on Richland Creek.

DRAINAGE AREA. -- 1,957 mi<sup>2</sup>.

PERIOD OF RECORD. -- Nov. 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--Records good, except for estimated daily mean contents, which are fair. The reservoir is formed by a rolled earthfill dam 31,000 ft long. Deliberate impoundment of water began Jul. 14, 1987, and the dam was completed in Dec. 1988. A gated concrete spillway is located near the left end of dam. The spillway is 1,155 ft long and contains twenty-four 40- x 29.4-ft radial gates. The low flow outlet works consist of two 3- x 5-ft outlets at elevation 266.0 ft, one 1.5 x 2.5 ft outlet, and one 1 x 1 ft outlet at elevation 285.0 ft. Each of the low flow outlets is controlled by sluice gates. The dam is owned by Tarrant Regional Water District, and was built for municipal and industrial water supply and for recreation. Flow from 464 mi<sup>2</sup> above the dam is controlled by Bardwell and Navarro Mills Lakes. Conservation pool storage is 1,136,600 acre-ft. Data regarding the dam are given in the following table:

	ation
Top of dam	eet)
	30.0
	17.3
Top of conservation pool	14.2
Crest of spillway	90.0
Lowest gated outlet	56.0

COOPERATION.--Capacity table No. 1-C was prepared by Freese and Nichols, consulting engineers for Tarrant Regional Water District. A new capacity table, No. 2-C, was prepared by the Texas Water Development Board and put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,267,000 acre-ft, Dec. 22, 1991 elevation 316.85 ft; minimum contents after initial filling, 862,000 acre-ft, Nov. 23, 1996 elevation, 308.05 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,204,000 acre-ft, Mar. 2, elevation, 316.61 ft; minimum contents, 1,023,000 acre-ft, Oct. 15, elevation, 312.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,192,000 acre-ft, Dec. 19, elevation, 316.32 ft; minimum contents, 1,033,000 acre-ft, Nov. 27, 28, Dec. 11, elevation, 312.47 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

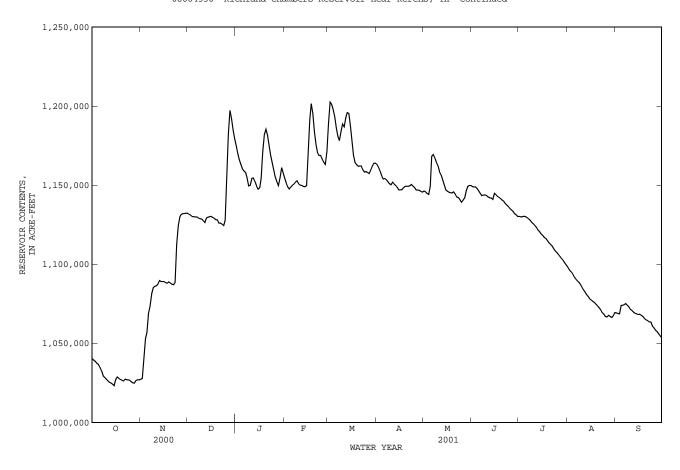
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040000	1027000	1132000	1175000	1154000	1189000	1163000	1146000	1149000	1130000	1098000	1069000
2	1039000	1028000	1131000	1170000	1151000	1202000	1161000	1146000	1149000	1130000	1096000	1069000
3	1039000	1039000	1131000	1166000	1149000	1201000	1159000	1145000	1149000	1130000	1095000	1069000
4	1037000	1053000	1130000	1163000	1148000	1198000	1156000	1144000	1148000	1130000	1094000	1074000
5	1037000	1057000	1130000	1160000	1149000	1193000	1154000	1149000	1146000	1130000	1092000	1074000
6 7 8 9 10	1035000 1033000 1029000 1028000 1027000	1069000 1074000 1081000 1085000 1086000	1130000 1130000 1129000 1129000 1129000	1159000 1158000 1155000 1150000	1150000 1151000 1152000 1153000 1151000	1186000 1181000 1178000 1184000 1189000	1154000 1153000 1152000 1151000 1150000	1168000 1169000 1167000 1164000 1162000	1145000 1143000 1144000 1144000 1143000	1129000 1129000 1128000 1126000 1126000	1091000 1090000 1089000 1087000 1086000	1074000 1075000 1074000 1073000 1072000
11	1026000	1086000	1127000	1154000	1150000	1187000	1152000	1158000	1143000	1124000	1084000	1071000
12	1025000	1088000	1126000	1155000	1150000	1193000	1151000	1156000	1142000	1123000	1082000	1070000
13	1025000	1090000	1129000	1152000	1149000	1196000	1150000	1153000	1142000	1122000	1081000	1069000
14	1024000	1089000	1130000	1150000	1149000	1195000	1149000	1150000	1141000	1121000	1080000	1069000
15	1023000	1089000	1130000	1148000	1150000	1187000	1147000	1147000	1145000	1119000	1078000	1068000
16	1027000	1089000	1130000	1148000	1171000	1177000	1147000	1146000	1144000	1118000	1077000	1068000
17	1029000	1088000	1130000	1154000	1191000	1169000	1147000	1146000	1143000	1117000	1076000	1068000
18	1028000	1088000	1129000	1171000	1201000	1164000	1148000	1145000	1142000	1116000	1076000	1067000
19	1027000	1089000	1128000	1182000	1195000	1163000	1149000	1145000	1141000	1115000	1075000	1066000
20	1027000	1088000	1128000	1185000	1184000	1162000	1149000	1146000	1140000	1113000	1074000	1065000
21	1026000	1087000	1126000	1181000	1176000	1162000	1149000	1144000	1140000	1112000	1072000	1064000
22	1027000	1087000	1126000	1175000	1171000	1162000	1150000	1143000	1138000	1112000	1071000	1064000
23	1027000	1088000	1125000	1169000	1169000	1160000	1150000	1142000	1137000	1110000	1069000	1063000
24	1027000	1113000	1124000	1165000	1169000	1158000	1149000	1141000	1136000	1108000	1068000	1061000
25	1027000	1124000	1128000	1160000	1167000	1159000	1148000	1139000	1135000	1107000	1067000	1060000
26 27 28 29 30 31	1026000 1025000 1025000 1026000 1027000 1027000	1130000 1132000 1132000 1132000 1132000	1154000 1182000 1197000 1192000 1185000 1180000	1155000 1152000 1150000 1155000 1161000 1158000	1165000 1163000 1171000 	1158000 1157000 1160000 1162000 1164000 1164000	1147000 1147000 1147000 1146000 1146000	1140000 1142000 1146000 1149000 1150000	1134000 1133000 1132000 1131000 1130000	1106000 1105000 1104000 1102000 1101000 1099000	1067000 1068000 1067000 1066000 1067000 1069000	1058000 1057000 1056000 1055000 1053000
MEAN	1029000	1088000	1139000	1161000	1162000	1176000	1151000	1150000	1141000	1117000	1079000	1066000
MAX	1040000	1132000	1197000	1185000	1201000	1202000	1163000	1169000	1149000	1130000	1098000	1075000
MIN	1023000	1027000	1124000	1148000	1148000	1157000	1146000	1139000	1130000	1099000	1066000	1053000
(+)	312.30	314.90	316.04	315.52	315.84	315.66	315.22	315.32	314.85	314.10	313.36	312.96
(@)	-14000	+105000	+48000	-22000	+13000	-7000	-18000	+4000	-20000	-31000	-30000	-16000

CAL YR 2000 MAX 1197000 MIN 958700 (@) +209500 WTR YR 2001 MAX 1202000 MIN 1023000 (@) +12000

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08064550 Richland-Chambers Reservoir near Kerens, TX--Continued



#### 08064550 Richland-Chambers Reservoir near Kerens, TX--Continued

# RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1052000 1052000 1051000 1050000 1050000	1048000 1047000 1047000 1046000 1046000	1036000 1036000 1036000 1036000 1036000	1155000 1153000 1151000 1150000	1145000 1147000 1148000 1147000 1149000	1144000 1143000 1142000 1142000 1142000	1153000 1153000 1149000 1149000 1148000	1147000 1146000 1146000 1147000	1146000 1146000 1146000 1145000 1144000	1124000 1126000 1128000 1128000 1128000	1118000 1116000 1116000 1115000 1114000	1087000 1086000 1085000 1084000 1082000
6 7 8 9 10	1049000 1048000 1047000 1046000 1046000	1045000 1044000 1044000 1045000 e1044000	1035000 1035000 1036000 1035000 1034000	1149000 1149000 1152000 1153000 1153000	1155000 1160000 1162000 1160000 1157000	1141000 1141000 1141000 1139000 1139000	1147000 1147000 1154000 1155000	1148000 1149000 1149000 1148000 1148000	1143000 1142000 1142000 1142000 1142000	1127000 1126000 1126000 1125000 1124000	1113000 1112000 1111000 1110000 1109000	1081000 1080000 1080000 1082000 1080000
11 12 13 14 15	1046000 1054000	e1044000 e1043000 e1043000 e1043000 1042000	1035000 1039000 1039000 1039000 1041000	1152000 1151000 1148000 1146000 1147000	1155000 1153000 1151000 1150000 1147000	1139000 1138000 1138000 1138000 1137000	1153000 1151000 1149000 1147000 1148000	1149000 1148000 1148000 1147000 1147000		1123000 1122000 1122000 e1123000 e1126000	1109000 1107000 1107000 1105000 1104000	1080000 1079000 1078000 1076000 1075000
16 17 18 19 20	1060000 1060000 1059000 1058000 1058000	1042000 1042000 1042000 1042000 e1040000	1065000 1117000 1172000 1190000 1182000	1147000 1147000 1146000 1146000 1146000	1147000 1147000 1147000 1149000 1148000	1137000 1137000 1139000 1141000 1153000	1150000 1151000 1152000 1153000 1152000	1147000 1148000 1148000 1147000 1145000		e1128000 e1130000 1131000 1131000 1130000	1102000 1101000 1100000 1099000 1098000	1074000 1073000 1072000 1073000 1073000
21 22 23 24 25	1057000 1057000	e1040000 e1039000 e1039000 e1040000 1037000	1177000 1174000 1171000 1167000 1166000	1146000 1145000 1146000 1146000	1147000 1147000 1147000 1148000 1147000	1159000 1161000 1159000 1157000 1154000	1151000 1148000 1148000 1147000 1146000	1145000 1144000 1144000 1142000 1142000	1130000 1130000 1129000 1128000 1127000	1130000 1130000 1129000 1128000 1128000	1096000 1095000 1094000 1093000 1091000	1071000 1070000 1068000 1066000 1064000
26 27 28 29 30 31	1053000 1052000 1051000 1050000 1049000 1048000	1036000 1034000 1036000 1038000 1037000	1163000 1160000 1159000 1159000 1158000 1157000	1146000 1145000 1145000 1145000 1145000 1146000	1145000 1145000 1144000 	1150000 1148000 1147000 1147000 1148000 1151000	1146000 1147000 1147000 1147000 1147000	1142000 1142000 1143000 1147000 1149000 1148000	1127000 1126000 1126000 1125000 1123000	1127000 1126000 1124000 1122000 1121000 1119000	1090000 1091000 1091000 1090000 1089000 1087000	1063000 1062000 1061000 1060000 1059000
MEAN MAX MIN	1053000 1060000 1046000	1042000 1048000 1034000	1100000 1190000 1034000	1148000 1155000 1145000	1150000 1162000 1144000	1145000 1161000 1137000	1150000 1155000 1146000	1146000 1149000 1142000	1135000 1146000 1123000	1126000 1131000 1119000	1102000 1118000 1087000	1074000 1087000 1059000
(+) (@)	312.85 -5000	312.57 -11000	315.49 +120000	315.22 -11000	315.19 -2000	315.34 +7000	315.26 -4000	315.27 +1000	314.68 -25000	314.58 -4000	313.81 -32000	313.12 -28000
CAT. V	P 2001	MAY 12020	OO MIN	1034000	(@) <b>_</b> 230	00						

CAL YR 2001 MAX 1202000 MIN 1034000 (@) -23000 WTR YR 2002 MAX 1190000 MIN 1034000 (@) +6000

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.(@) Change in contents, in acre-feet.

M 2002

1,020,000

N 2001

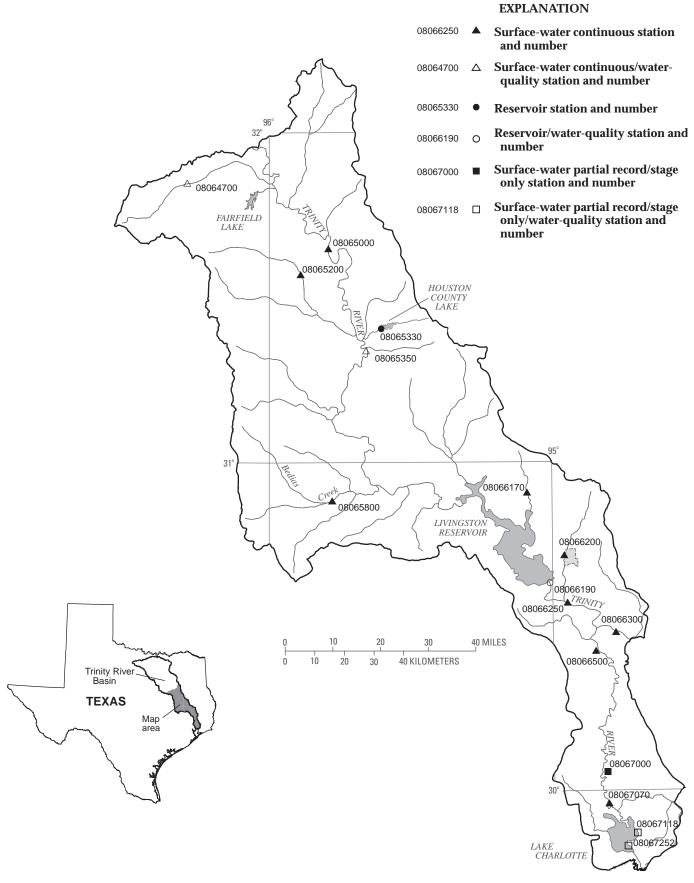


Figure 5.--Map showing location of gaging stations in the third section of the Trinity River Basin

08064700	Tehuacana Creek near Streetman, TX	296
08065000	Trinity River near Oakwood, TX	300
08065200	Upper Keechi Creek near Oakwood, TX	302
08065330	Houston County Lake near Corckett, TX	304
08065350	Trinity River near Crockett, TX	306
08065800	Bedias Creek near Madisonville, TX	318
08066170	Kickapoo Creek near Onalaska, TX	320
08066190	Livingston Reservoir near Goodrich, TX	322
08066200	Long King Creek at Livingston, TX	332
08066250	Trinity River near Goodrich, TX	334
08066300	Menard Creek near Rye, TX	336
08066500	Trinity River at Romayor, TX	338
08067000	Trinity River at Liberty, TX	340
08067070	CWA Canal near Dayton, TX	342
08067118	Lake Charlotte near Anahuac, TX	344
08067252	Trinity River at Wallisville, TX	350

### 08064700 Tehuacana Creek near Streetman, TX

LOCATION.--Lat 31°50′54", long 96°17′23", Freestone County, Hydrologic Unit 12030201, on downstream side at right end of bridge on U.S. Hwy 75, 2.8 mi southeast of Streetman, 3.1 mi downstream from Burlington Northern and Santa Fe Railroad Co. bridge, 3.8 mi upstream from Caney Creek, and 25 mi upstream from mouth.

DRAINAGE AREA.--142 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Apr. 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 287.58 ft above NGVD of 1929. From Dec. 14, 1993 to Aug. 14, 2001, at site 0.2 mi upstream at datum 7.45 ft lower. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. No flow at times.

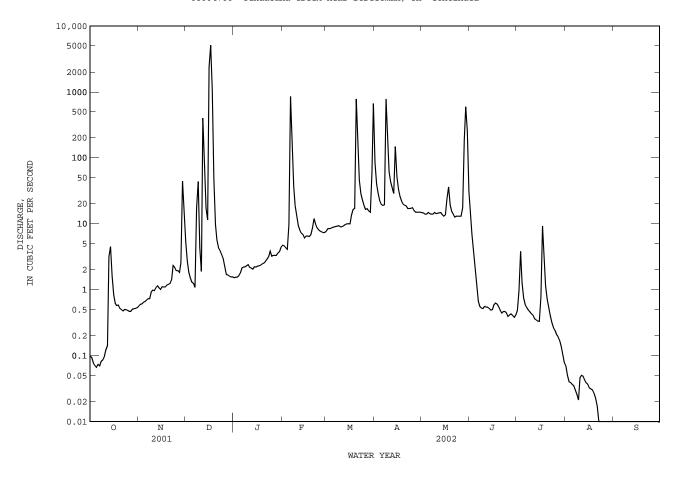
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Sept. 1932 reached a stage of about 24 ft at site and datum 0.2 mi downstream from information by Texas Department of Transportation.

							OCTOBER 200	)1 TO SE	PTEMBER 20	02	
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0.10 0.09 0.08 0.07	0.56 0.60 0.61 0.64 0.66	5.4 2.7 1.9 1.5	1.5 1.5 1.5 1.6 1.8	e4.7 e4.6 e4.3 e4.1 e9.7				13 6.9 3.9 2.3 1.3	0.48 0.97 3.8 1.3 0.75	0.07 e0.05 e0.04 0.04 0.04	0.00 0.00 0.00 0.00 0.00
0.07 0.07 0.08 0.09 0.10	0.73	1.1 17 44	2.1 2.2 2.2 2.3 2.4	854 199 37 19 e13				0.66 0.56 0.53 0.51 0.56	0.59 0.53 0.49 0.46 0.43	0.03 0.03 0.03 0.02 0.05	0.00 0.00 0.00 0.00
0.12 0.14 3.2 4.5 1.6	0.96 1.1 1.1 1.1	1.9 401 117 17 11	2.2 2.1 2.0 2.2 2.2	e9.3 e7.9 e7.2 e6.9 e6.1	9.1 9.3 9.7 10	43 35 29 148 52	14 15 15 14 13	0.54 0.54 0.52 0.49 0.50	0.41 0.36 0.35 0.33 0.33	0.05 0.05 0.04 0.04	0.00 0.00 0.00 0.00 0.00
		2390 5100 1060 46 9.7	2.3 2.3 2.4 2.5 2.5	e6.5 e6.5 e6.4 e6.8 8.6	9.9 13 16 17 781	33 26 22 20 19	14 24 36 19 16	0.59 0.63 0.60 0.55 0.49	0.77 9.2 3.2 1.2 0.72	0.03 0.03 0.03 0.03 0.02	0.00 0.00 0.00 0.00 0.00
0.49	1.9				158 46 28 23 19	18 17 17 17 17	14 13 13 13 13	0.44 0.46 0.47 0.44 0.39	0.54 0.41 0.32 0.27 0.24	0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.47 0.47 0.51 0.51 0.52 0.53	1.9 1.8 2.6 44 14	2.2 1.7 1.7 1.6 1.6	e3.3 e3.3 e3.6 e3.8 e4.4	e7.5 e7.3 e7.4 	16 17 16 15 60 669	16 15 15 15 15	13 18 186 593 256 31	0.41 0.43 0.40 0.38 0.41	0.21 0.19 0.17 0.14 0.10 0.08	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18.95 0.611 4.5 0.07 38	91.40 3.047 44 0.56 181	298.9 5100 1.1 18380	2.555 4.4 1.5 157	854 4.1 2560	781 7.8 4050	780 15 3730	593 13 2950	0.38 79	29.34 0.946 9.2 0.08 58	0.78 0.025 0.07 0.00 1.5	0.00 0.000 0.00 0.00
									3.649	14.23	26.94
379 1974 0.000 1981	399 1999 0.000 1981	1013 1992 0.000 2000	381 1998 0.12 1971			762 1997 0.000 1971	2927 1989 0.020 1971	388 1981 0.040 1996	35.1 1976 0.000 1978	234 1983 0.000 1969	547 1974 0.000 1980
Y STATIST	ICS	FOR	2001 CALE	ENDAR YEAR	. 1	FOR 2002	WATER YEAR		WATER YEA	RS 1968 -	2002
MEAN F ANNUAL : ANNUAL M	EAN		126.1	L		44.	44		274	2	1989 1996
DAILY ME SEVEN-DA M PEAK FL	AN Y MINIMUM OW	1	0.0	00 Feb 6	i	5100 0. 0. 6390 23	Dec 17 00 Aug 22 00 Aug 22 Dec 17 93 Dec 17		42000 0.0 0.0 g85700 34 9	May 4 0 Sep 30 0 Sep 30 May 17 9 Feb 17	1968 1968 1989
RUNOFF (. CENT EXCE CENT EXCE	AC-FT) EDS EDS					23	9		55 1.6		2001
	0.10 0.09 0.08 0.07 0.07 0.07 0.07 0.07 0.09 0.10 0.12 0.14 3.2 4.5 1.6 0.83 0.62 0.57 0.58 0.52 0.50 0.47 0.55 0.611 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.	OCT NOV  0.10 0.56 0.09 0.60 0.08 0.61 0.07 0.64 0.07 0.66 0.07 0.69 0.07 0.73 0.08 0.73 0.09 0.93 0.10 0.99  0.12 0.96 0.14 1.1 3.2 1.1 4.5 1.1 1.6 1.0 0.83 1.1 0.62 1.1 0.57 1.1 0.58 1.2 0.52 1.2 0.50 1.2 0.50 1.2 0.47 1.4 0.50 2.3 0.49 2.2 0.48 1.9 0.47 1.9 0.47 1.9 0.47 1.8 0.51 2.6 0.51 44 0.52 14 0.53 18.95 91.40 0.611 3.047 4.5 4.5 0.51 44 0.53 18.95 91.40 0.611 3.047 4.5 4.5 0.51 44 0.53 18.95 91.40 0.611 3.047 4.5 4.5 0.51 44 0.53 18.95 91.40 0.611 3.047 4.5 4.5 0.51 44 0.7 0.56 38 181 FICS OF MONTHLY ME 53.91 63.65 379 399 1974 1999 0.000 0.000 1981 1981 Y STATISTICS TOTAL MEAN T ANNUAL MEAN ANNUAL MEAN ANNUAL MEAN T DALLY MEAN T DALLY MEAN T DALLY MEAN T DALLY MEAN	OCT NOV DEC  0.10 0.56 5.4 0.09 0.60 2.7 0.08 0.61 1.9 0.07 0.64 1.5 0.07 0.66 1.3  0.07 0.69 1.2 0.07 0.73 1.1 0.08 0.73 17 0.09 0.93 44 0.10 0.99 4.3  0.12 0.96 1.9 0.14 1.1 401 3.2 1.1 117 4.5 1.1 17 1.6 1.0 11  0.83 1.1 2390 0.62 1.1 5100 0.57 1.1 1060 0.58 1.2 46 0.52 1.2 9.7  0.50 1.2 5.7 0.47 1.4 4.3 0.50 2.3 3.9 0.49 2.2 3.4 0.48 1.9 3.0  0.47 1.9 2.2 0.47 1.8 1.7 0.51 2.6 1.7 0.51 44 1.6 0.52 14 1.6 0.53 1.6  18.95 91.40 9264.7 0.611 3.047 298.9 4.5 44 5100 0.07 0.56 1.1 38 11 18380  PICS OF MONTHLY MEAN DATA F  53.91 63.65 144.7 379 399 1013 1974 1999 1992 0.000 0.000 0.000 1981 1981 2000  Y STATISTICS FOR  TOTAL MEAN T ANNUAL MEAN D DAILY MEAN D D D D D D D D D D D D D D D D D D D	OCT NOV DEC JAN  0.10 0.56 5.4 1.5 0.09 0.60 2.7 1.5 0.08 0.61 1.9 1.5 0.07 0.64 1.5 1.6 0.07 0.66 1.3 1.8  0.07 0.69 1.2 2.1 0.07 0.73 1.1 2.2 0.08 0.73 17 2.2 0.09 0.93 44 2.3 0.10 0.99 4.3 2.4  0.12 0.96 1.9 2.2 0.14 1.1 401 2.1 3.2 1.1 117 2.0 4.5 1.1 17 2.2 1.6 1.0 11 2.2  0.83 1.1 2390 2.3 0.62 1.1 5100 2.3 0.62 1.1 5100 2.3 0.62 1.1 5100 2.3 0.57 1.1 1060 2.4 0.58 1.2 46 2.5 0.52 1.2 9.7 2.5  0.50 1.2 5.7 2.7 0.47 1.4 4.3 2.9 0.50 2.3 3.9 3.1 0.49 2.2 3.4 3.8 0.48 1.9 3.0 3.2  0.47 1.9 2.2 63.3 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.52 14 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.51 44 1.6 63.6 0.52 14 1.6 63.6 0.53 1.6 64.4  18.95 91.40 9264.7 79.2 0.611 3.047 298.9 2.555 4.5 44 5100 4.4 0.07 0.56 1.1 1.5 38 181 18380 157  TICS OF MONTHLY MEAN DATA FOR WATER  53.91 63.65 144.7 82.24 379 399 1013 381 1974 1999 1992 1998 0.000 0.000 0.000 0.012 1981 1981 2000 1971  Y STATISTICS FOR 2001 CALF  TOTAL 400.000 0.000 0.012 1981 1981 2000 1971  Y STATISTICS FOR 2001 CALF  TOTAL 400.000 0.000 0.000 0.12 1981 1981 2000 1971  Y STATISTICS FOR 2001 CALF  TOTAL 400.000 0.000 0.000 0.12 1981 1981 2000 1971  Y STATISTICS FOR 2001 CALF  TOTAL 400.000 0.000 0.000 0.12 1981 1981 2000 1971  Y STATISTICS FOR 2001 CALF  TOTAL 400.000 0.0000	OCT NOV DEC JAN FEB  0.10 0.56 5.4 1.5 e4.7 0.09 0.60 2.7 1.5 e4.6 0.08 0.61 1.9 1.5 e4.6 0.07 0.64 1.5 1.6 e4.1 0.07 0.66 1.3 1.8 e9.7  0.07 0.69 1.2 2.1 854 0.07 0.73 1.1 2.2 199 0.08 0.73 17 2.2 37 0.09 0.93 44 2.3 19 0.10 0.99 4.3 2.4 e13  0.12 0.96 1.9 2.2 e9.3 0.14 1.1 401 2.1 e7.9 3.2 1.1 117 2.0 e7.2 4.5 1.1 17 2.2 e6.9 1.6 1.0 11 2.2 e6.1 0.83 1.1 2390 2.3 e6.5 0.62 1.1 5100 2.3 e6.5 0.62 1.1 5100 2.3 e6.5 0.57 1.1 1060 2.4 e6.4 0.58 1.2 46 2.5 e6.8 0.52 1.2 9.7 2.5 8.6  0.50 1.2 5.7 2.7 e12 0.47 1.4 4.3 2.9 e10 0.50 2.3 3.9 3.1 e8.7 0.49 2.2 3.4 3.8 e8.1 0.48 1.9 3.0 3.2 e7.7  0.47 1.9 2.2 e3.3 e7.5 0.49 2.2 3.4 3.8 e8.1 0.48 1.9 3.0 3.2 e7.7  0.47 1.9 2.2 e3.3 e7.5 0.51 2.6 1.7 e3.3 e7.3 0.51 2.6 1.7 e3.3 e7.4 0.51 44 1.6 e3.6 1.8 95 91.40 9264.7 79.2 1290.3 0.611 3.047 298.9 2.555 46.08 4.5 44 5100 4.4 854 0.52 14 1.6 e3.8 1.6 e4.4  18.95 91.40 9264.7 79.2 1290.3 0.611 3.047 298.9 2.555 46.08 4.5 44 5100 4.4 854 0.57 2560  CICS OF MONTHLY MEAN DATA FOR WATER YEARS 196  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 196  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 196  FOR 2001 CALENDAR YEAR  TOTAL 46030.59 1981 1981 2000 1971 1996  FY STATISTICS FOR 2001 CALENDAR YEAR  TOTAL 46030.59 1981 1981 2000 1971 1996  FY STATISTICS FOR 2001 CALENDAR YEAR  TOTAL 46030.59 1986  CENT EXCEEDS 119 1992 1993 119 1903 119 1905 119	OCT NOV DEC JAN FEB MAR  0.10 0.56 5.4 1.5 e4.7 e7.8 0.09 0.60 2.7 1.5 e4.6 8.5 0.08 0.61 1.9 1.5 e4.1 8.6 0.07 0.64 1.5 1.6 e4.1 8.6 0.07 0.66 1.3 1.8 e9.7 8.8 0.07 0.69 1.2 2.1 854 9.0 0.07 0.73 1.1 2.2 199 9.1 0.08 0.73 17 2.2 37 9.2 0.09 0.93 44 2.3 19 9.4 0.10 0.99 4.3 2.4 e13 8.9 0.12 0.96 1.9 2.2 e9.3 9.1 0.14 1.1 401 2.1 e7.9 9.3 3.2 1.1 117 2.0 e7.9 9.3 3.2 1.1 117 2.0 e7.2 9.7 4.5 1.1 17 2.2 e6.9 10 1.6 1.0 11 2.2 e6.1 10 0.83 1.1 2390 2.3 e6.5 9.9 0.62 1.1 5100 2.3 e6.5 13 0.57 1.1 1060 2.4 e6.4 16 0.58 1.2 46 2.5 e6.8 17 0.52 1.2 9.7 2.5 8.6 781 0.50 1.2 5.7 2.7 e12 158 0.47 1.4 4.3 2.9 e10 46 0.50 2.3 3.9 3.1 e8.7 28 0.49 2.2 3.4 3.8 e8.1 23 0.48 1.9 3.0 3.2 e7.7 19 0.47 1.8 1.7 e3.3 e7.4 16 0.51 2.6 1.7 e3.3 e7.4 16 0.51 2.6 1.7 e3.3 e7.4 16 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.6 15 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.8 60 0.53 181 18380 157 2560 4050  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR DATE YEARS 1968 - 2002  FICS OF MONTHLY MEAN DATA FOR DATE YEARS 1968 - 2002  FICS OF BASE YEAR STAGE RUNOFF (AC-FT) 91300  PEAK FLOW WEAK TARBEN TAGE RUNO	OCT NOV DEC JAN FEB MAR APR  0.10 0.56 5.4 1.5 e4.7 e7.8 84 0.09 0.60 2.7 1.5 e4.6 8.5 40 0.08 0.61 1.9 1.5 e4.3 8.4 29 0.07 0.64 1.5 1.6 e4.1 8.6 23 0.07 0.66 1.3 1.8 e9.7 8.8 20 0.07 0.69 1.2 2.1 854 9.0 19 0.08 0.73 17 2.2 37 9.2 78 0.09 0.99 4.3 2.4 e13 8.9 61 0.10 0.99 4.3 2.4 e13 8.9 61 0.10 0.99 4.3 2.4 e13 8.9 61 0.11 17 2.0 e7.2 9.7 29 4.5 1.1 117 2.0 e7.2 9.7 29 4.5 1.1 117 2.0 e7.2 9.7 29 4.5 1.1 117 2.2 e6.9 10 148 1.6 1.0 11 2.2 e6.1 10 52 0.83 1.1 2390 2.3 e6.5 9.9 33 0.62 1.1 5100 2.3 e6.5 13 26 0.58 1.2 46 2.5 e6.8 17 0.55 1.2 9.7 2.5 8.6 781 0.50 1.2 5.7 2.7 e12 158 0.47 1.4 4.4 3.2 9.9 e10 46 17 0.50 1.2 5.7 2.7 e12 158 0.47 1.4 1.4 4.3 2.9 e10 46 17 0.50 2.3 3.9 3.1 e8.7 28 0.47 1.4 1.6 e3.6 15 0.48 1.9 3.0 3.2 e7.7 19 17 0.47 1.9 2.2 e3.3 e7.5 16 16 0.47 1.8 1.7 e3.3 e7.7 19 17 0.47 1.9 2.2 e3.3 e7.5 16 16 0.47 1.8 1.7 e3.3 e7.7 19 17 0.47 1.9 2.2 e3.3 e7.5 16 16 0.50 1.2 5.7 2.7 e12 158 0.47 1.4 1.6 e3.6 15 0.51 44 1.6 e3.6 15 0.51 44 1.6 e3.8 60 0.51 2.6 1.7 e3.3 e7.4 16 0.52 14 1.6 e3.8 60 0.53 1.1 1880 157 2560 4050 3730  FICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATE 1974 1999 1992 1998 1998 1986 1990 1997 0.000 0.000 0.000 0.000 0.12 0.45 0.25 0.000 0 M PEAK TIOW M PEAK STAGE M ENDOR TION EXCEEDS 119 23 1011 19 223	OCT NOV DEC JAN FEB MAR APR MAY  0.10 0.56 5.4 1.5 e4.7 e7.8 84 15 0.09 0.60 2.7 1.5 e4.6 8.5 40 15 0.09 0.60 1.9 1.5 e4.6 8.5 40 15 0.07 0.64 1.5 1.6 e4.1 8.6 23 14 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 0.07 0.69 1.2 2.1 854 9.0 19 14 0.07 0.69 1.2 2.1 854 9.0 19 14 0.08 0.73 17 2.2 199 9.1 19 14 0.08 0.73 17 2.2 199 9.1 19 14 0.08 0.73 17 2.2 199 9.1 19 14 0.09 0.93 44 2.3 19 9.4 216 15 0.10 0.99 4.3 2.4 e13 8.9 61 14 0.12 0.96 1.9 2.2 e9.3 9.1 43 14 0.14 1.1 401 2.1 e7.9 9.3 35 15 3.2 1.1 117 2.0 e7.2 9.7 29 15 4.5 1.1 17 2.2 e6.9 10 148 14 1.6 1.0 11 2.2 e6.1 10 52 13 0.83 1.1 2390 2.3 e6.5 9.9 33 14 0.62 1.1 5100 2.3 e6.5 13 26 24 0.57 1.1 1060 2.4 e6.4 16 22 36 0.58 1.2 46 2.5 e6.8 17 20 19 0.50 1.2 5.7 2.7 e12 158 18 14 0.50 1.2 5.7 2.7 e12 158 18 14 0.47 1.4 4.3 2.9 e10 46 17 13 0.49 2.2 3.4 e3.3 e7.3 17 13 0.47 1.4 4.3 2.9 e10 46 17 13 0.49 2.2 3.4 e3.3 e7.3 17 15 18 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 1.9 2.2 6.3 3.9 3.1 e8.7 28 17 13 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 1.2 5.7 2.7 e12 158 18 14 0.50 2.3 3.9 3.1 e8.7 28 17 13 0.49 1.2 5.7 2.7 e12 158 18 14 0.40 1.9 3.0 3.2 e7.7 19 17 13 0.47 1.8 1.9 3.0 3.2 e7.7 19 17 13 0.49 1.9 2.2 e3.3 e7.5 16 16 16 13 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.49 1.9 3.0 3.2 e7.7 19 17 13 0.47 1.9 2.2 e3.3 e7.5 16 16 16 13 0.49 1.9 2.2 e3.3 e7.5 16 16 16 13 0.49 1.9 2.2 e3.3 e7.5 16 16 16 13 0.49 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.0 1.9 1.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OCT NOV DEC JAN FEB MAR APR MAY JUN  0.10 0.56 5.4 1.5 e4.7 e7.8 84 15 13 0.09 0.60 2.7 1.5 e4.6 8.5 40 15 6.9 0.08 0.61 1.9 1.5 e4.6 8.5 40 15 6.9 0.08 0.61 1.9 1.5 e4.6 8.5 40 15 1.3 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 1.3 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 1.3 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 1.3 0.07 0.68 0.61 1.9 2.2 1854 9.0 19 14 0.66 0.08 0.07 0.73 1.1 2.2 199 9.1 19 14 0.56 0.08 0.73 1.1 2.2 199 9.1 19 14 0.56 0.08 0.73 1.1 2.2 199 9.1 19 14 0.56 0.08 0.73 1.1 2.2 199 9.1 19 14 0.56 0.08 0.73 1.1 2.2 199 9.4 216 15 0.51 0.10 0.99 4.3 2.4 e13 8.9 61 14 0.55 0.09 0.93 44 2 2.3 19 9.4 216 15 0.51 0.10 0.99 4.3 2.4 e13 8.9 61 14 0.56 0.14 0.56 0.14 1.1 40.1 2.1 e7.9 9.3 35 15 0.54 3.2 1.1 117 2.0 e7.2 e9.7 29 15 0.52 4.5 1.1 117 2.2 e6.1 10 52 13 0.50 0.54 1.9 1.6 1.0 11 2.2 e6.1 10 52 13 0.50 0.62 1.1 5100 2.3 e6.5 13 26 24 0.63 0.57 1.1 1060 2.3 e6.5 13 26 24 0.63 0.57 1.1 1060 2.4 e6.4 16 22 36 0.60 0.55 1.2 9.7 2.5 8.6 781 19 16 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 16 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 16 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 10 17 13 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 10 17 13 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 10 17 13 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 10 17 13 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 10 17 13 0.49 0.49 0.2 3 46 0.60 0.58 1.2 46 0.5 3.9 9.1 48 17 13 0.46 0.55 0.52 1.2 9.7 2.5 8.6 781 19 17 13 0.49 0.49 0.2 3 48 18 18 18 14 0.44 0.49 1.4 4.3 2.9 e10 46 17 13 0.49 0.55 0.52 1.2 9.7 2.5 8.6 781 19 17 13 0.49 0.49 0.2 3 3.9 3.1 e8.7 28 17 13 0.40 0.49 0.2 3 3.9 3.1 e8.7 28 17 13 0.40 0.40 0.50 0.52 1.2 9.7 2.5 8.6 81 17 20 19 0.55 0.52 1.2 9.7 2.5 8.6 81 17 20 19 0.55 0.50 0.52 1.2 9.7 2.5 8.6 81 17 13 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	DAILY MEAN VALUES   OCT   NOV   DEC   JAN   FEB   MAR   APR   MAY   JUN   JUL	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG  0.10 0.56 5.4 1.5 e4.7 e7.8 94 15 13 0.48 0.09 0.09 0.60 2.7 1.5 e4.3 8.4 29 114 3.9 3.8 e0.04 0.07 0.68 1.5 1.9 1.5 e4.3 8.4 29 114 3.9 3.8 e0.04 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 1.3 0.75 0.04 0.07 0.66 1.3 1.8 e9.7 8.8 20 15 1.3 0.75 0.04 0.07 0.69 1.2 2.1 854 9.0 19 14 0.66 0.59 0.03 0.08 0.70 1.2 2.1 854 9.0 19 14 0.66 0.59 0.03 0.09 0.93 14 2.2 199 9.1 199 14 0.66 0.59 0.03 0.09 0.93 44 2.3 19 9.4 216 15 0.50 0.53 0.03 0.09 0.99 4.3 2.4 e13 8.9 61 14 0.56 0.43 0.05 0.12 0.96 1.9 2.2 e9.3 9.1 43 14 0.56 0.43 0.05 0.14 1.1 401 2.1 e7.9 9.3 35 15 0.54 0.36 0.05 0.14 1.1 1 220 e6.9 110 52 13 0.50 0.33 0.04 1.5 1.1 17 2.2 e6.9 10 5 12 13 0.50 0.33 0.04 1.5 1.1 117 2.2 e6.9 10 5 12 13 0.50 0.33 0.04 1.5 1.1 100 2.3 e6.5 9.9 33 14 0.59 0.77 0.03 0.63 1.1 2390 2.3 e6.5 9.9 33 14 0.59 0.77 0.03 0.63 1.1 2390 2.3 e6.5 9.9 33 14 0.59 0.77 0.03 0.55 1.1 1060 2.3 e6.5 13 26 24 0.63 9.2 0.03 0.55 1.2 6.7 2.7 e12 158 18 14 0.59 0.77 0.03 0.55 1.2 6.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.55 1.2 6.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 14 0.44 0.59 0.72 0.03 0.50 1.2 5.7 2.7 e12 158 18 0.40 0.40 0.72 0.00 0.49 2.2 3.4 3.8 e8.1 22 17 13 0.46 0.41 0.00 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.46 0.41 0.00 0.49 2.2 3.4 3.8 e8.1 23 17 13 0.40 0.40 0.72 0.00 0.49 2.2 3.4 4.3 84 8.8 1.2 2.1 17 13 0.46 0.41 0.00 0.51 1.4 1.6 e3.6 155 15 500 Dec 17 0.40 1.99 0.99 0.99 0.99 0.99 0.99 0.99 0.9

e Estimated

g At site and datum then in use.

08064700 Tehuacana Creek near Streetman, TX--Continued



# 08064700 Tehuacana Creek near Streetman, TX--Continued

# WATER-QUALITY RECORDS

					WATE	R-QUALITY	RECORDS						
PERIOD OF R		1060 +0	Cont 10	00E Oct	1000 +0 0		-020						
	DATA: Feb CAL DATA:		to curre	ent year.		_		1 TO SEPT	EMBER 200	12			
		DIS-		PH			OXYGEN,	OXYGEN		HARD-			
		CHARGE,	SPE-	WATER			DIS-	DEMAND,	HARD-	NESS		MAGNE-	
		INST. CUBIC	CIFIC CON-	WHOLE FIELD	TEMPER-	OXYGEN,	SOLVED (PER-	BIO- CHEM-	NESS TOTAL	NONCARB DISSOLV	CALCIUM DIS-	SIUM, DIS-	SODIUM, DIS-
		FEET	DUCT-	(STAND-	ATURE	DIS-	CENT	ICAL,	(MG/L	FLD. AS	SOLVED	SOLVED	SOLVED
Date	Time	PER SECOND	ANCE (US/CM)	ARD UNITS)	WATER (DEG C)	SOLVED (MG/L)	SATUR- ATION)	5 DAY (MG/L)	AS CACO3)	CACO3 (MG/L)	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS NA)
		(00061)	(00095)	(00400)	(00010)	(00300)	(00301)	(00310)	(00900)	(00904)	(00915)	(00925)	(00930)
OCT													
23	1005	.52	460	7.3	21.0	4.5	51	<2.0	120	42	30.3	11.6	37.6
DEC 12	0915	231	126	7.8	10.5	8.9	81	6.9	36	7	9.15	3.25	8.38
FEB 14	0845	6.9	520	7.5	8.0	10.4	88	2.7	150		38.1	13.3	46.1
APR 17	1020	26	365	7.4	22.5	6.2	73	3.3	110	29	27.3	9.36	29.8
MAY 08	1215	14	1270	7.4	26.5	6.3	81	4.3	340	130	83.1	31.1	139
JUN 20	1030	.50	1200	7.6	27.5	6.5	85	2.9	320	110	80.2	29.6	124
	CODILIM		DOM's G	CAR-	BICAR-	ALKA-		CITT O	FILLIO	077.703	SOLIDS,	SOLIDS,	RESIDUE
	SODIUM AD-		POTAS- SIUM,	BONATE WATER	BONATE WATER	LINITY WAT DIS	SULFATE	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	RESIDUE AT 180	SUM OF CONSTI-	TOTAL AT 105
	SORP-		DIS-	DIS IT	DIS IT	TOT IT	DIS-	DIS-	DIS-	SOLVED	DEG. C	TUENTS,	DEG. C,
Date	TION RATIO	SODIUM	SOLVED (MG/L	FIELD MG/L AS	FIELD MG/L AS	FIELD MG/L AS	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	DIS- SOLVED	DIS- SOLVED	SUS- PENDED
	(00021)	PERCENT	AS K)	CO3	HCO3	CACO3	AS SO4)	AS CL)	AS F)	SIO2)	(MG/L)	(MG/L)	(MG/L)
	(00931)	(00932)	(00935)	(00452)	(00453)	(39086)	(00945)	(00940)	(00950)	(00955)	(70300)	(70301)	(00530)
OCT 23 DEC	1	38	5.74	<1	100	82	60.5	50.3	.2	6.48	272	252	24
12	.6	31	3.95	<1	35	29	13.9	8.53	.2	5.76	96	72	912
FEB 14 APR	2	39	4.52				75.4	54.0	.2	9.59	326		36
17 MAY	1	37	4.79	<1	94	78	43.1	34.0	.1	8.88	233	204	32
08 JUN	3	47	5.31	1	248	205	172	168	.4	14.1	790	737	10
20	3	45	6.08	<1	258	213	157	152	.3	11.3	716	688	11
	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,	NITRO- GEN,AM-	PHOS-	ORTHO- PHOS-	PHOS- PHATE,		ALUM-	ANTI-	
	NITRATE	NITRITE	NO2+NO3	AMMONIA	ORGANIC	MONIA +	PHORUS	PHATE,	ORTHO,	CARBON,	INUM,	MONY,	ARSENIC
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	ORGANIC DIS.	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	ORGANIC TOTAL	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED
Date	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(UG/L	(UG/L	(UG/L
	AS N)	AS N)	AS N)	AS N)	AS N) (00607)	AS N)	AS P) (00666)	AS P)	AS PO4)	AS C) (00680)	AS AL)	AS SB) (01095)	AS AS) (01000)
	(00618)	(00613)	(00631)	(00608)	(00607)	(00623)	(00000)	(00671)	(00660)	(00000)	(01106)	(01095)	(01000)
OCT 23		E.005	E.04	E.02		.49	E.03	.02	.055	9.9	1	.11	E2
DEC 12	.29	.009	.30	.06	.58	.64	.054	.03	.098	28.1	6	.08	<2
FEB 14		E.007	.21	<.04		.53	.029	<.02		10.5	2	.09	<2
APR 17	.09	.009	.10	.05	.76	.80	.061	.04	.117	13.0	3	.30	E1
MAY 08		<.008	<.05	<.04		.34	.014	<.02		7.4			
JUN 20		<.008	<.05	<.04		.44	.013	<.02		8.3	<1	.16	2
	BARIUM,	BERYL- LIUM,	CADMITTM	CHRO- MIUM,	COBALT,	COPPER,	IRON,	LEAD,	MANGA- NESE,	MERCURY	MOLYB- DENUM,	NICKEL,	SELE- NIUM,
	DIS-	DIS-	CADMIUM DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DENOM, DIS-	DIS-	DIS-
	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
Date	(UG/L AS BA)	(UG/L AS BE)	(UG/L AS CD)	(UG/L AS CR)	(UG/L AS CO)	(UG/L AS CU)	(UG/L AS FE)	(UG/L AS PB)	(UG/L AS MN)	(UG/L AS HG)	(UG/L AS MO)	(UG/L AS NI)	(UG/L AS SE)
	(01005)	(01010)	(01025)	(01030)	(01035)	(01040)	(01046)	(01049)	(01056)	(71890)	(01060)	(01065)	(01145)
OCT													
23 DEC	60	<.06	<.04	<.8	.59	1.6	17	<.08	441	<.01	.5	2.18	<2
12 FEB	17	<.06	<.04	<.8	.36	1.5	76	.11	12.6		.3	2.53	<2
14 APR	62	<.06	<.04	<.8	.90	2.6	55	.09	259	<.01	.3	2.34	<2
17	51	<.06	<.04	<.8	.44	2.7	93	.09	89.0	<.01	.3	2.98	<2
MAY 08													
							<10		70.8				
JUN 20	 97	<.06	<.04	<.8	.24	2.2	<10 <10	<.08	70.8 16.7	<.01	.8	1.85	<2

# 08064700 Tehuacana Creek near Streetman, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	AS ZN)	(UG/L AS U)
OCT			
23	<1	<1	.45
DEC			
12	<1	2	.11
FEB			
14	<1	1	1.28
APR		_	
17	<1	2	.66
MAY			
08			
JUN			
20	<1	1	2.67

Remark codes used in this report: < -- Less than E -- Estimated value

### 08065000 Trinity River near Oakwood, TX

LOCATION.--Lat 31°38′54", long 95°47′21", Anderson County, Hydrologic Unit 12030201, on left bank at downstream side of bridge on U.S. Highways 79 and 84, 1.5 mi upstream from Missouri Pacific Railroad Co. bridge, 6.0 mi northeast of Oakwood, and at mile 313.4.

DRAINAGE AREA. -- 12,833 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1923 to Sept. 1924 (monthly discharge only), Oct. 1924 to current year. Records of Jan. 1905 to Sept. 1923, published in WSP 850 and 878, have been found unreliable and should not be used. Gage-height records collected in this vicinity since 1904 are contained in reports of the National Weather Service.

vicinity since 1904 are contained in reports of the National Weather Service.

Water-quality records.--Sediment data: Dec. 1976 to Sept. 1981. Specific conductance: Dec. 1976 to Sept. 1981. Water temperature: Dec. 1976 to Sept. 1981. Suspended sediment data: Dec. 1976 to Sept. 1981.

REVISED RECORDS.--WSP 1442: 1934. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M,m).

GAGE.--Water-stage recorder. Datum of gage is 175.06 ft above NGVD of 1929. Prior to July 1932, nonrecording gage at site 1.5 mi downstream at datum 1.06 ft lower. July 15, 1932, to Oct. 7, 1934, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. These structures control runoff from 614 mi<sup>2</sup> in the Richland, Chambers, and Tehuacana Creeks drainage basins. The Industrial Generating Co. at Fairfield makes a minor diversion from the river at a site about 34 mi upstream. The diversion to Fairfield Lake (capacity 50,600 acre-ft) is used to maintain the normal pool elevation for that lake.

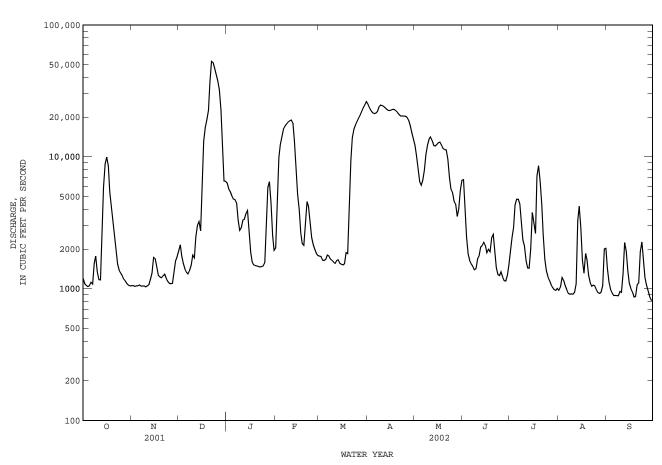
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1890 reached a stage of 53 ft (discharge about 180,000 ft<sup>3</sup>/s) and was the highest since that date, from information in local newspapers. Flood of June 4, 1908, reached a stage of 52.2 ft, present site and datum, from information by the National Weather Service (discharge, about 164,000 ft<sup>3</sup>/s).

		DISCHARGE	FROM DCP,	CUBIC F		ECOND, WA LY MEAN V		OCTOBER 20	01 TO SEI	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1190	1050	1940	6330	2040	1770	25100	12200	6720	1900	973	1440
2	1090	1050	2150	5690	5020	1760	23600	10200	4460	2430	1030	1130
3	1060	1040	1770	5460	9910	1650	22400	8200	2460	2930	1220	991
4	1040	1050	1550	5080	12400	1640	21600	6510	1840	4300	1160	929
5	1050	1050	1410	4790	14200	1670	21300	6100	1630	4770	1060	888
6	1120	1070	1330	4740	16300	1800	21500	6620	1540	4770	988	890
7	1090	1040	1290	4480	17100	1770	22100	7880	1480	4390	922	886
8	1560	1050	1380	3350	17800	1680	23900	10400	1390	3070	906	885
9	1770	1050	1510	2770	18400	1640	24700	12300	1420	2340	915	954
10	1350	1030	1810	2900	18800	1590	24500	13600	1680	2100	910	938
11	1170	1050	1710	3310	19000	1560	24100	14200	1770	1630	938	1290
12	1170	1080	2480	3350	18000	1640	23600	13300	2070	1430	1090	2240
13	2120	1190	3010	3700	13300	1660	23000	12200	2130	1430	3290	1930
14	5880	1310	3230	3920	7860	1560	22500	12100	2250	2010	4220	1360
15	8810	1730	2750	2710	5200	1530	22500	12400	2120	3780	2930	1100
16	9950	1690	5330	1890	4010	1510	22700	12800	1870	3140	1650	1000
17	8560	1460	13100	1600	2630	1540	23000	12900	1990	2620	1310	942
18	e5430	1260	16800	1520	2200	1870	22900	12300	1910	7180	1850	865
19	e4080	1230	19200	1490	2130	1850	22300	11500	2430	8570	1650	873
20	e3130	1210	22600	1490	3110	3950	21600	11400	2580	6500	1260	1070
21	e2450	1250	36800	1470	4580	9410	20900	11300	1950	4360	1110	1110
22	e1950	1290	53200	1460	4220	14000	20400	9640	1440	2570	1040	1920
23	e1540	1210	51900	1470	3270	16200	20400	7000	1280	1680	1070	2260
24	1380	1140	46800	1490	2440	17500	20400	5740	1260	1360	1050	1640
25	1310	1100	42100	1580	2150	18600	20300	5390	1340	1230	982	1210
26 27 28 29 30 31	1250 e1180 e1140 1090 1060 1050	1090 1100 1330 1620 1750	37800 32300 22800 11300 6590 6520	2790 5850 6470 4450 2530 1950	1990 1860 1780 	19600 20700 22100 23600 24900 26300	19900 19000 17300 15200 13700	4620 4380 3540 4020 5550 6640	1230 1150 1150 1260 1500	1150 1080 1020 985 971 1000	932 920 944 1060 2000 2020	1060 959 869 823 808
TOTAL	78020	36570	454460	102080	231700	248550	646400	286930	59300	88696	43400	35260
MEAN	2517	1219	14660	3293	8275	8018	21550	9256	1977	2861	1400	1175
MAX	9950	1750	53200	6470	19000	26300	25100	14200	6720	8570	4220	2260
MIN	1040	1030	1290	1460	1780	1510	13700	3540	1150	971	906	808
AC-FT	154800	72540	901400	202500	459600	493000	1282000	569100	117600	175900	86080	69940
STATIS	TICS OF	MONTHLY MI	EAN DATA F	OR WATER	YEARS 192	25 - 2002	, BY WATE	R YEAR (WY	)			
MEAN	2443	3646	5225	5269	6477	7872	7861	11400	7781	2720	1259	1459
MAX	14250	25900	33280	31870	35060	40450	45710	56050	33550	15240	7050	7361
(WY)	1974	1975	1992	1998	1932	1945	1945	1990	1957	1941	1982	1962
MIN	85.0	100	146	166	222	242	278	812	151	74.2	62.7	62.8
(WY)	1925	1925	1926	1940	1925	1925	1925	1971	1925	1925	1925	1930

# 08065000 Trinity River near Oakwood, TX--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YE	CAR FOR 2002 WAT	TER YEAR	WATER YEARS	1925 - 2002
ANNUAL TOTAL	3734946	2311366			
ANNUAL MEAN	10230	6333		5276	
HIGHEST ANNUAL MEAN				15240	1992
LOWEST ANNUAL MEAN				657	1925
HIGHEST DAILY MEAN	55600 Mar	6 53200	Dec 22	153000	Apr 29 1942
LOWEST DAILY MEAN	873 Aug	11 808	Sep 30	28	Nov 1 1924
ANNUAL SEVEN-DAY MINIMUM	893 Aug	7 910	Sep 4	38	Aug 19 1925
MAXIMUM PEAK FLOW		54800	Dec 22	153000	Apr 29 1942
MAXIMUM PEAK STAGE		45.07	Dec 22	51.64	Apr 29 1942
ANNUAL RUNOFF (AC-FT)	7408000	4585000		3822000	=
10 PERCENT EXCEEDS	33400	20400		15000	
50 PERCENT EXCEEDS	3230	1990		1510	
90 PERCENT EXCEEDS	1040	1040		310	

### e Estimated



### 08065200 Upper Keechi Creek near Oakwood, TX

LOCATION.--Lat 31°34′11", long 95°53′17", Leon County, Hydrologic Unit 12030201, at right bank at downstream side of bridge on U.S. Highway 79, 1.9 mi upstream from Missouri Pacific Railroad Co. bridge, 2.0 mi southwest of Oakwood, 11 mi upstream from Buffalo Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--150 mi<sup>2</sup>.

PERIOD OF RECORD.--Apr. 1962 to current year.
Water-quality records.--Chemical data: June 1962 to Apr. 1964, Nov. 1967 to Sept. 1975.

water quarrey records. Chemical data tune 1702 to Apr. 1707, Nov. 1707 to Sept. 1773.

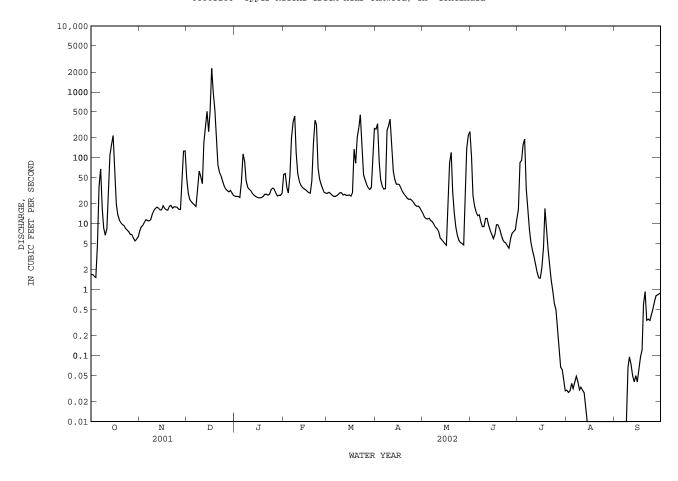
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 240.11 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 21 ft in 1932, from information by local residents.

		DISCHARGE :	FROM DCP,	CUBIC FEE		OND, WAT MEAN VA		CTOBER 200	1 TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	1.7 1.7 1.6 1.5 4.8	7.8 9.0 9.5 11 12	49 29 23 22 20	26 26 26 25 44	56 58 35 29 54	29 30 29 27 26	272 327 87 47 37	14 13 12 12 12	104 27 19 15 13	16 84 91 156 192	0.03 0.03 0.03 0.04 0.03	0.00 0.00 0.00 0.00 0.00
6 7 8 9 10	36 68 17 8.7 6.7	11 11 12 14 16	19 18 36 63 51	115 89 45 36 33	204 351 430 120 57	26 27 28 30 29	34 34 262 302 385	11 11 9.8 8.8 8.4	14 11 9.0 9.1	34 16 8.1 5.3 3.9	0.04 0.05 0.04 0.03 0.03	0.00 0.00 0.00 0.07 0.10
11 12 13 14 15	8.4 40 109 159 218	17 18 17 16 16	41 169 295 508 250	32 29 27 26 25	44 38 36 34 33	27 28 27 27 27	169 63 47 40 40	7.7 6.1 5.7 5.3 5.0	12 9.4 7.9 6.9 5.9	3.1 2.3 1.8 1.5	0.03 0.03 0.02 0.00 0.00	0.07 0.05 0.04 0.05 0.04
16 17 18 19 20	76 20 14 11 10	19 17 16 16 18	503 2270 975 532 178	25 25 25 26 28	31 30 29 45 165	26 29 135 83 207	39 34 31 28 26	4.7 23 84 121 32	6.8 9.7 9.6 8.4 6.7	2.2 4.4 17 7.8 3.9	0.00 0.00 0.00 0.00	0.06 0.09 0.12 0.60 0.93
21 22 23 24 25	9.6 9.3 8.5 8.0 7.6	19 17 18 18	78 60 53 43 37	28 27 28 33 35	371 317 70 47 39	291 448 142 56 46	24 23 24 23 21	15 8.9 6.6 5.6 5.2	5.8 5.3 5.1 4.6 4.3	2.3 1.4 0.95 0.61 0.49	0.00 0.00 0.00 0.00 0.00	0.34 0.36 0.34 0.41 0.51
26 27 28 29 30 31	6.9 6.9 6.1 5.5 5.8 6.3	17 16 40 126 128	34 32 30 32 29 27	34 30 26 27 27 29	33 30 29 	40 35 33 35 94 279	19 18 18 18 16	5.0 4.8 39 138 217 249	5.9 7.2 7.7 8.1 12	0.23 0.13 0.07 0.06 0.04 0.03	0.00 0.00 0.00 0.00 0.00	0.67 0.81 0.83 0.86 0.90
TOTAL MEAN MAX MIN AC-FT CFSM IN.	893.6 28.83 218 1.5 1770 0.19 0.22	700.3 23.34 128 7.8 1390 0.16 0.17	6506 209.9 2270 18 12900 1.40 1.61	1057 34.10 115 25 2100 0.23 0.26	2815 100.5 430 29 5580 0.67 0.70	2396 77.29 448 26 4750 0.52 0.59	2508 83.60 385 16 4970 0.56 0.62	1100.6 35.50 249 4.7 2180 0.24 0.27	382.4 12.75 104 4.3 758 0.08 0.09	658.11 21.23 192 0.03 1310 0.14 0.16	0.43 0.014 0.05 0.00 0.9 0.00	8.25 0.275 0.93 0.00 16 0.00 0.00
STATIST	rics of	MONTHLY ME.						YEAR (WY)				
MEAN MAX (WY) MIN (WY)	43.43 371 1974 0.000 1964	54.84 513 1975 0.000 1964	110.6 878 1992 0.36 1964	107.1 614 1999 4.03 1964	122.2 425 1997 8.28 1964	125.4 461 1973 8.79 1996	114.3 574 1966 8.41 1971	136.3 1413 1965 1.82 1972	65.69 517 1976 0.48 1963	12.68 128 1981 0.000 1964	5.379 54.5 1979 0.000 1963	13.97 246 1974 0.000 1963
SUMMAR	Y STATIS	STICS	FOR	2001 CALEN	DAR YEAR	F	OR 2002 W	ATER YEAR		WATER YEAR	RS 1962 -	2002
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HIGHEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN LOWEST DAILLY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS			0.09	Dec 17 Aug 15 Aug 10		0.0 0.0 2900	Dec 17 0 Aug 14 0 Aug 14 Dec 17 2 Dec 17		0.0 0.0 24000	2 Jan 29 0 Aug 5 0 Aug 5 May 16 9 Jan 29	1962 1962 1965	

08065200 Upper Keechi Creek near Oakwood, TX--Continued



### 08065330 Houston County Lake near Crockett, TX

LOCATION.--Lat 31°24′24", long 95°36′06", Houston County, Hydrologic Unit 12030201, at Houston County Water Control and Improvement District No. 1 pump station on Little Elkhart Creek, 10 miles northwest of Crockett.

DRAINAGE AREA. -- 49 mi<sup>2</sup>.

PERIOD OF RECORD. -- May 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 1,250 ft long, including a 500-ft uncontrolled spillway. Deliberate impoundment began in Nov. 1966. The uncontrolled spillway is an excavated channel cut through natural ground and located at the right end of the dam. The low-flow outlet consists of an 18-inch concrete pressure pipe through the dam with valve on the upstream side. Water is used for municipal and industrial purposes in the area. There are no known diversions. The dam is owned by the Houston County WC&ID No. 1. In 2000, levels were used to determine elevations from NGVD of 1929. The reference elevation was found to differ from the TWDB published value by -0.60 ft. Conservation pool storage is 17,665 acre-ft. Data regarding the dam use the datum from TWDB Report 126 and are given in the following table:

	Elevation
	(feet)
Top of dam	277.0
Crest of uncontrolled spillway	265.0
Top of conservation pool	259.5
Lowest gated outlet	234.0

COOPERATION.--The capacity table, furnished by the Texas Water Development Board, dated Mar. 11, 1999, is from a Jan. 1999 survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 23,450 acre-ft, June 8, 2001, elevation, 264.87 ft; minimum contents, 15,540 acre-ft, Oct. 15, 2000, elevation, 258.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,280 acre-ft, Dec. 17, elevation, 261.36 ft; minimum contents, 17,120 acre-ft, Sept. 7, 8, elevation, 259.54 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17800	17860	18170	18000	18030	17940	18280	17840	18040	17850	17570	17250
2	17780	e17880	18130	17980	18020	17930	18230	17830	18000	17850	17560	17240
3	17770	e17880	18100	17970	18010	17920	18170	17820	17950	17890	17540	17220
4	17770	e17870	18080	17960	18000	17910	18110	17810	17910	17880	17520	17200
5	17890	e17870	18060	18040	18070	17910	18070	17800	17910	17850	17530	17180
6	18310	17860	18050	18140	18240	17920	18030	17780	17880	17830	17520	17160
7	18330	17860	18030	18130	18260	17930	18010	17780	17840	17820	17510	17140
8	18240	17860	18080	18100	18210	17940	18370	17760	17830	17810	17490	17210
9	18170	17860	18080	18090	18170	17940	18490	17760	17850	17780	17470	17280
10	18120	17860	18060	18080	18120	17930	18400	17750	17900	17760	17490	17280
11	18190	17870	18070	18070	18090	17920	18310	17730	17920	17730	17460	17280
12	18330	17870	18290	18050	18070	17930	18240	17710	17870	17710	17450	17270
13	18520	17870	18330	18030	18050	17930	18180	17700	17830	17730	17430	17260
14	18700	17870	18310	18020	18030	17930	18140	17690	17810	17780	17420	17260
15	18570	17870	18360	18000	18020	17940	18100	17670	17750	17770	17400	17250
16	18410	17870	18640	18000	18010	17930	18070	17660	17790	17840	17390	17240
17	18280	17870	19190	18000	18000	17940	18040	17770	17790	17940	17380	17240
18	18200	17870	19070	17990	17990	18000	18020	17950	17770	17930	17380	17240
19	18140	17870	18790	18030	18030	18010	18000	17940	17750	17900	17360	17270
20	18090	17860	18590	18060	18100	18140	17970	17900	17730	17870	17350	17340
21	18060	17860	18450	18050	18100	18160	17950	17880	17720	17840	17330	17340
22	18030	17850	18360	18050	18080	18120	17940	17850	17710	17820	17320	17320
23	18020	17870	18300	18050	18060	18080	17930	17820	17700	17790	17310	17300
24	18000	17870	18240	18050	18030	18050	17910	17810	17700	17770	17290	17270
25	17960	17860	18180	18050	18020	18040	17890	17790	17690	17740	17270	17250
26 27 28 29 30 31	17930 17900 17880 17870 17870 17860	17870 17890 18080 18230 18220	18130 18100 18080 18060 18030 18010	18030 18020 18010 18010 18020 18030	17970 17960 17950 	18010 17990 17980 17990 18040 18290	17870 17860 17870 17870 17850	17780 17770 17890 18020 18140 18090	17710 17770 17780 17790 17820	17710 17680 17650 17630 17610 17590	17260 17290 17310 17300 17280 17260	17230 17210 17200 17190 17180
MEAN	18100	17900	18270	18040	18060	17990	18070	17820	17820	17790	17400	17240
MAX	18700	18230	19190	18140	18260	18290	18490	18140	18040	17940	17570	17340
MIN	17770	17850	18010	17960	17950	17910	17850	17660	17690	17590	17260	17140
(+)	260.16	260.47	260.29	260.31	261.24	260.52	260.16	260.36	260.13	259.94	259.66	259.59
(@)	+60	+360	-210	+20	-80	+340	-440	+240	-270	-230	-330	-80

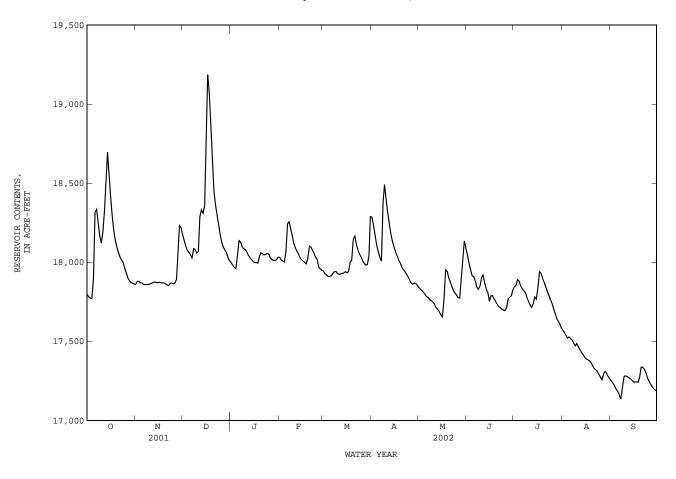
CAL YR 2001 MAX 23140 MIN 17360 (@) -510 WTR YR 2002 MAX 19190 MIN 17140 (@) -620

e Estimated

<sup>(+)</sup> Elevation, in feet, at end of month.

<sup>(@)</sup> Change in contents, in acre-feet.

08065330 Houston County Lake near Crockett, TX--Continued



### 08065350 Trinity River near Crockett, TX

LOCATION.--Lat 31°20′18", long 95°39′22", Houston-Leon County line, Hydrologic Unit 12030201, on left bank at an abandoned bridge abutment near left end of an abandoned lock and dam, 1,000 ft upstream from State Highway 7, 6.9 mi downstream from Upper Keechi Creek, 11.9 mi west of Crockett, and at mile 265.4.

DRAINAGE AREA.--13,911  $\mathrm{mi}^2$ .

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan. 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 141.15 ft above NGVD of 1929. Prior to Oct. 13, 1983, water-stage recorder at site 1,000 ft downstream at datum 4.56 ft lower. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in water year 1964, at least 10% of contributing drainage area has been regulated. There are many diversions above station for irrigation, municipal, and industrial uses.

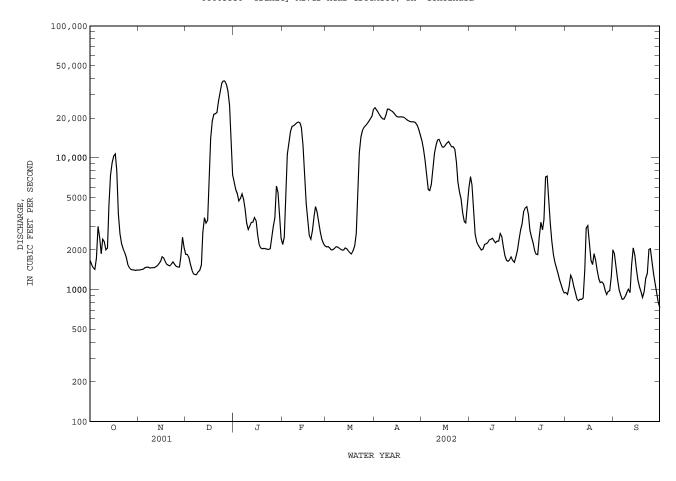
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 56.1 ft, Apr. 30 or May 1, 1942, at former site and datum, from information by Texas Department of Transportation.

DISCHARGE From DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	1	DISCHARGE	From DCP,	CORIC F		COND, WA Y MEAN V		OCTOBER 20	OI TO SE	PTEMBER 20	02	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	1400	1850	6570	2200	2110	24000	13300	7190	1980	952	1890
2	1540	1410	1850	5720	2500	2120	23100	11700	6250	2390	919	1510
3	1460	1420	1770	5370	6190	2080	22100	9540	3890	2830	1050	1200
4 5	1430	1430	1560	4700 4910	10700	2010 2000	21200	7250 5740	2630	3140	1290	996 904
5	1740	1470	1410	4910	13000	2000	20300		2300	3900	1220	
6 7	3020 2490	1480 1480	1310 1300	5320 4830	15900 17300	2050 2120	19700 19600	5650 6280	2170 2090	4170 4260	1060 953	846 851
8	1880	1460	1300	4090	17500	2110	21300	8210	2000	3720	851	892
9	2410	1470	1360	3190	17900	2080	23400	10900	2030	2830	825	958
10	2320	1470	1400	2860	18400	2030	23400	12500	2200	2500	846	1010
11	2010	1470	1540	3050	18700	1990	22900	13600	2230	2270	843	947
12	2070	1490	2730	3240	18400	2000	22500	13800	2260	1980	864	1550
13	4340	1520	3510	3260	16900	2070	21900	12900	2380	1860	1400	2070
14	7410	1570	3190	3530	12400	2040	21200	12100	2410	1850	2920	1820
15	9160	1640	3350	3330	7120	1960	20600	12100	2450	2540	3050	1460
16	10300	1780	6790	2580	4500	1900	20400	12400	2360	3240	2300	1190
17 18	10700 8030	1740	14100	2200 2070	3340 2600	1870	20400	13000	2270	2830	1670 1550	1050 958
19	3770	1630 1550	19100 21400	2070	2420	2140	20500 20400	13300 12700	2330 2330	3410 7130	1880	958 872
20	2660	1530	21600	2060	2800	1970 2140 2670	20100	12100	2670	7270	1670	961
21	2230	1520	22000	2040	3580	5320	19600	12100	2550	4950	1400	1220
22	2040	1570	e26900	2030	4270	10900	19200	11600	2120	3250	1210	1330
23	1930	1620	e31500	e2020	3880	14400	18900	9250	1810	2340	1130	2010
24	1770	1550	36600	e2040	3240	16100	18800	6580	1670	1850	1140	2040
25	1550	1500	38200	e2500	3580 4270 3880 3240 2740	17100	18800	5510	1640	1600	1110	1650
26	1470	1480	38300	e3000	2400	17600	18700	4870	1680	1450	991	1320
27	1420	1490	36200	e3500	2250	18100	18400	3820	1770	1320	918	1110
28	1410	1810	32000	6100	2150	18800	17600	3290	1660	1180	965	933
29	1410	2500	25000	5430		19700	16300	3210 4290	1610	1080	980	804
30 31	1400 1410	2080	14000 7460	3430 2460		20700 23200	14800	5940	1760 	993 944	1270 2000	730 
TOTAL	98440	47530	420580	109470	235280	223240	610100	289530	74710	87057	41227	37082
MEAN	3175	1584	13570	3531	8403	7201	20340	9340	2490	2808	1330	1236
MAX	10700	2500	38300	6570	18700	23200	24000	13800	7190	7270	3050	2070
MIN	1400	1400	1300	2020	2150	1870	14800	3210	1610	944	825	730
AC-FT	195300	94280	834200	217100	466700	442800	1210000	574300	148200	172700	81770	73550
STATIS	TICS OF	MONTHLY ME	EAN DATA F	OR WATER	YEARS 196	4 - 2002	2, BY WATI	ER YEAR (WY	7)			
MEAN	3160	5566	7595	6545	8145	10450	9115	12880	9298	3311	1790	1795
MAX	16840	26110	35440	33620	30490	39700	25960	62100	29570	15030	7188	6932
(WY)	1974	1975	1992 719 1967	1992	1992	2001	1977	1990	1989	1989	1982	1974
MIN	548	619	719	514	670	730	931	939	822	374	413	513
(WY)	1979	1967	1967	1964	1967	1967	1972	1971	1971	1964	1967	1972
SUMMAR	Y STATIS	rics	FOR	2001 CAL	ENDAR YEAR		FOR 2002	WATER YEAR	2	WATER YEAR	RS 1964 -	2002
ANNUAL	TOTAL			3849563			2274246					
ANNUAL				10550			6231			6745	May 10 Aug 12 Aug 10	
	T ANNUAL									16810		1992
LOWEST	ANNUAL I	MEAN		E9400	Max 0		20200	Dog 26		1352	Morr 10	1971
LOMEGE	DATES M	ALT WIN		984	Mar 12		30300 730	Sen 30	)	278	May 10	1990
ANNIJAT.	SEVEN-D	AY MINTMIN	M	1010	Aug 12		38300 730 892 38700	Aug 6		293	Aua 10	1964
MAXIMU	M PEAK FI	LOW					38700	Dec 25	;	109000	May 10	T990
MAXIMU	M PEAK S	TAGE					40	.11 Dec 25	j	48.5	4 May 10	1990
ANNUAL	RUNOFF	(AC-FT)		7636000			4511000			4886000		
10 PER	CENT EXC	EEDS		30500			19100			19200		
50 PER	CENT EXC	EEDS		4090			2340	Dec 26 Sep 36 Aug 6 Dec 25		2450		
90 PER	CENT EXC	TEDS		1260			1160			765		

e Estimated

08065350 Trinity River near Crockett, TX--Continued



#### 08065350 Trinity River near Crockett, TX--Continued

#### WATER-OUALITY RECORDS

PERIOD OF RECORD.-CHEMICAL DATA: Feb. 1964 to current year.
BIOCHEMICAL DATA: Feb. 1968 to current year.
PESTICIDE DATA: Nov. 1971 to July 1981.
SEDIMENT DATA:: Nov. 1972 to Sept. 1977.

PERIOD OF DAILY RECORD. --

RIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Feb. 1964 to current year.
pH: Mar. 1975 to current year.
WATER TEMPERATURE: Feb. 1964 to Sept. 1971, Mar. 1975 to current year.
DISSOLVED OXYGEN: Mar. 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1972 to Sept. 1977.

INSTRUMENTATION .-- Water-quality monitor since Mar. 1975.

REMARKS.--Records fair. Interruptions in the record were caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous years using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office

EXTREMES FOR PERIOD OF DAILY RECORD. -

SPECIFIC CONDUCTANCE: Maximum, 2,370 microsiemens/cm, Sept. 22, 1964; minimum, 89 microsiemens/cm, June 8, 2001. pH: Maximum, 9.6 units, Aug. 11-12, 1981; minimum, 5.9 units, Aug. 12, 1977.

WATER TEMPERATURE: Maximum, 37.0°C, July 4, 1970, Sept. 4, 1978; minimum, 1.0°C, Jan. 17, 1978, Nov. 24, 1984.

DISSOLVED OXYGEN: Maximum, 19.3 mg/L, Feb. 10, 1981; minimum, 0.0 mg/L, Apr. 20, 1976.

EXTREMES FOR CURRENT YEAR. --

SPECIFIC CONDUCTANCE: Maximum, 820 microsiemens/cm, Dec. 31; minimum, 142 microsiemens/cm, July 19. pH: Maximum, 8.5 units, Mar. 12, 13; minimum, 6.4 units, Dec. 13. WATER TEMPERATURE: Maximum, 32.7°C, Aug. 4, 6; minimum, 7.8°C, Nov. 30, Jan. 6, 8. DISSOLVED OXYGEN: Maximum, 13.1 mg/L, Mar. 13; minimum, 4.6 mg/L, June 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
FEB	1004	15400	240		0.0	550	10.4	0.0	0.0	100	20	10.0	2.52
07 MAR	1204	17400	340	7.9	8.8	770	10.4	89	2.3	120	32	40.8	3.69
27 MAY	1615	18200	328	7.8	15.0	766	8.1	80	2.2	120	25	41.9	3.46
14 JUN	1515	12000	342	7.7	24.3	765	8.3	99	2.1	120	23	41.3	3.13
17 JUL	1622	2260	572	7.7	29.0	760	6.6	86	1.5	160	47	55.1	5.72
17 AUG	0842	2900	520	7.7	28.3	762	6.3	81	2.6	150	48	50.6	5.26
30	1200	1190	618	7.9	29.0	763	7.3	95	1.6	160	63	54.6	6.02
Date	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
FEB 07	DIS- SOLVED (MG/L AS NA)	AD- SORP- TION RATIO	SIUM, DIS- SOLVED (MG/L AS K)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)
FEB 07 MAR 27	DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
FEB 07 MAR 27 MAY 14	DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
FEB 07 MAR 27 MAY 14 JUN 17	DIS- SOLVED (MG/L AS NA) (00930) 18.3	AD- SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.32 4.47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS- SOLVED (MG/L AS SO4) (00945) 40.8	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
FEB 07 MAR 27 MAY 14 JUN	DIS- SOLVED (MG/L AS NA) (00930) 18.3 15.2	AD-SORP- TION RATIO (00931)	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.32 4.47 4.25	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 85 94 93	DIS- SOLVED (MG/L AS SO4) (00945) 40.8 36.3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 19.8 15.3	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 6.3 5.9 6.5	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618) .94 .67	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .014 .024	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .95 .70	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  .05 .05

# 08065350 Trinity River near Crockett, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	AS P)	(MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)
FEB					
07 MAR	.37	.42	.10	.08	.245
MAR 27	.39	.44	.08	.07	.227
MAY		2.5		1.0	210
14 JUN		.36	.11	.10	.310
17		.60	.51	.49	1.50
JUL 17		.54	. 46	. 47	1.44
AUG			. 10	. 1/	1,11
30		.42	.69	.65	1.98

Remark codes used in this report: < -- Less than

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

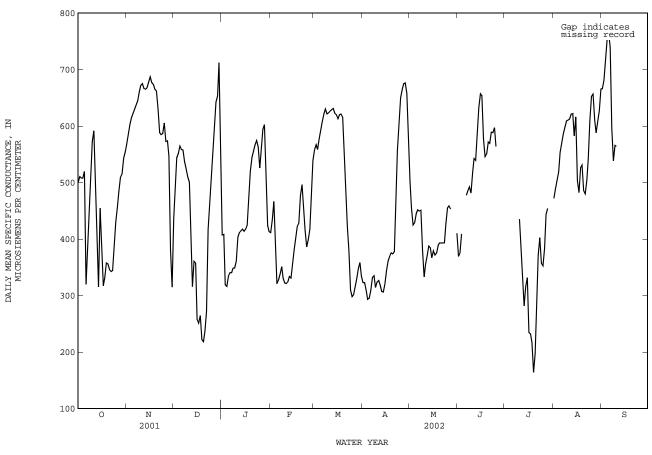
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1	517	483	500	581	555	568	463	376	436	433	393	407
2	516	507	510	595	579	585	510	463	485	442	374	408
3	515	499	508	610	595	602	586	509	544	374	296	319
4	519	499	508	618	610	615	568	538	552	329	297	316
5	544	472	519	624	618	622	568	561	565	340	329	334
6	472	243	319	638	622	629	561	556	558	356	324	341
7	395	353	376	638	636	637	562	550	557	348	326	340
8	492	392	447	654	637	645	550	529	537	350	347	348
9	535	492	519	671	654	661	533	520	524	349	348	348
10	611	535	573	676	670	672	521	500	510	395	346	361
11	629	558	591	679	672	675	508	457	500	407	395	403
12	560	491	522	672	663	666	457	373	402	416	407	411
13	534	283	413	669	663	665	380	285	316	419	409	414
14	341	292	315	671	665	668	377	300	361	418	416	417
15	586	312	454	689	670	678	392	293	357	416	410	414
16	493	336	387	690	684	687	293	228	258	420	414	417
17	336	309	317	685	672	677	287	226	251	435	420	424
18	352	312	331	676	672	673	282	239	264	481	435	470
19	367	343	358	675	656	665	243	201	222	541	481	521
20	362	354	356	674	654	662	229	210	218	548	541	544
21	362	337	345	674	575	630	248	229	237	561	548	555
22	345	340	342	596	575	588	369	248	271	570	561	566
23	353	339	344	588	581	585	449	369	417	581	568	574
24	413	353	390	608	578	586	482	449	470	582	522	563
25	447	413	431	615	583	605	537	482	513	550	511	526
26 27 28 29 30 31	466 500 514 531 553 555	447 466 500 508 531 552	456 484 509 515 543 554	583 578 578 456 377	570 570 456 271 261	572 574 547 380 315	593 627 652 656 820 820	537 593 627 650 656 390	567 608 642 653 712 504	567 640 665 581 433 417	548 567 536 433 417 410	555 594 602 491 424 413
MONTH	629	243	443	690	261	611	820	201	452	665	296	446

08065350 Trinity River near Crockett, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SPECIF	IC CONDUC	LIANCE	FROM DCP,	III US/CM	@ 25C,	WAIER YEA	R OCTOBER	2001 10	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	MAA	MILIN	MEAN	MAA	MIIN	MEAN	MAIN	MILIN	MEAN	MAN	INITIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	413	408	411	568		558	330		322	540	476	501
2	456	408	434	574		567	330		323	476	432	455
3	521	386	467	568		558	318		309	432	421	425 429
4 5	564 328	323 318	413 321	586 603		577 592	295 300	291 291	293 295	441 448	420 441	445
3	320	510	321	003	303	3,72	500	271	2,5	110		113
6	338	319	328	617		609	321	300	309	455	448	452
7	344	335	338	629		622			332	453	447	449
8	361	331	351	631		630	340		335	468	446	451
9	334	322	330	628	617	621		308	314	476	312	381
10	324	320	322	628	620	623	331	311	324	345	320	333
11	323	320	321	629	624	626	331	324	326	366	345	355
12	332	320	325	634		629	326		318	374	366	370
13	336	332	334	635	626	631			307	418	374	387
14	338	329	331	626		622	310	303	306	420	354	384
15	360	338	355	626	613	620	333	310	321	389	351	367
1.6	200	250	201	616	610	610	254	222	244	200	252	270
16 17	399 415	359 399	381 404	616 625		613 620	354 366		344 361	382 379	373 364	379
18	426	415	422	624	619	621	372		369	381	369	371 375
19	478	419	428	620	602	616			375	398	377	389
20	483	470	477	602		552			374	400	379	393
21	522	470	496	537		490			377	408	379	393
22	498	409	456	517		423	522	416	471	399	390	393
23	433	380	416	409	336	379	584		556	410	389	393
24	393	380	386	336		310	634		609	442	410	427
25	411	392	399	304	293	298	660	634	650	463	442	454
26	423	411	418	307	298	301	672	656	665	463	456	459
27	531	423	464	321		315	680		674	457	442	453
28	549	531	539	338	321	330	685		676			
29				355		348	674		658			
30				361	348	358	634		594			
31				349	319	334				428	396	410
MONTH	564	318	395	635	293	516	685	291	416			
MONTH	564	318	395	635	293	516	685	291	416			
MONTH	564 MAX	318 MIN	395 MEAN	635 MAX		516 MEAN			416 MEAN	MAX	MIN	MEAN
												MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN	MEAN	MAX	MIN SEPTEMB	MEAN ER
DAY 1	MAX 426	MIN JUNE 339	MEAN 369	MAX	MIN JULY	MEAN	MAX 481	MIN AUGUST 463	MEAN 472	MAX 678	MIN SEPTEMB	MEAN ER 666
DAY 1 2	MAX 426 392	MIN JUNE 339 353	MEAN 369 375	MAX 	MIN JULY 	MEAN 	MAX 481 503	MIN AUGUST 463 481	MEAN 472 489	MAX 678 704	MIN SEPTEMB 654 670	MEAN ER 666 681
DAY  1 2 3	MAX 426 392 424	MIN JUNE 339 353 392	MEAN 369 375 409	MAX 	MIN JULY 	MEAN  	MAX 481 503 518	MIN AUGUST 463 481 488	MEAN 472 489 504	MAX 678 704 731	MIN SEPTEMB 654 670 704	MEAN ER 666 681 718
DAY  1 2 3 4	MAX 426 392 424	MIN JUNE 339 353 392	MEAN 369 375 409	MAX  	MIN JULY  	MEAN  	MAX 481 503 518 539	MIN AUGUST 463 481 488 505	MEAN 472 489 504 519	MAX 678 704 731 764	MIN SEPTEMB 654 670 704 728	MEAN ER 666 681 718 754
DAY  1 2 3	MAX 426 392 424	MIN JUNE 339 353 392	MEAN 369 375 409	MAX 	MIN JULY 	MEAN  	MAX 481 503 518	MIN AUGUST 463 481 488 505	MEAN 472 489 504	MAX 678 704 731	MIN SEPTEMB 654 670 704	MEAN ER 666 681 718
DAY  1 2 3 4	MAX 426 392 424	MIN JUNE 339 353 392	MEAN 369 375 409	MAX  	MIN JULY  	MEAN  	MAX 481 503 518 539	MIN AUGUST 463 481 488 505 536	MEAN 472 489 504 519	MAX 678 704 731 764	MIN SEPTEMB 654 670 704 728	MEAN ER 666 681 718 754 763
DAY  1 2 3 4 5	MAX 426 392 424 485 488	MIN JUNE 339 353 392	MEAN  369 375 409 477 485	MAX	MIN JULY	MEAN	481 503 518 539 561 586 593	MIN AUGUST 463 481 488 505 536 560 583	MEAN  472 489 504 519 554  571 586	MAX 678 704 731 764 764 762 684	MIN SEPTEMB 654 670 704 728 761 684 525	MEAN ER 666 681 718 754 763 739 595
DAY  1 2 3 4 5 6 7 8	MAX 426 392 424 485 488 500	MIN JUNE 339 353 392 471 482 487	MEAN  369 375 409 477 485 492	MAX	MIN JULY	MEAN	481 503 518 539 561 586 593 606	MIN AUGUST 463 481 488 505 536 560 583 590	MEAN  472 489 504 519 554  571 586 597	MAX  678 704 731 764 764 762 684 553	MIN SEPTEMB 654 670 704 728 761 684 525 526	MEAN ER 666 681 718 754 763 739 595 538
DAY  1 2 3 4 5 6 7 8 9	MAX  426 392 424 485 488 500 507	MIN JUNE 339 353 392 471 482 487 445	MEAN  369 375 409 477 485 492 481	MAX	MIN JULY	MEAN	481 503 518 539 561 586 593 606 613	MIN AUGUST 463 481 488 505 536 560 583 590 602	MEAN  472 489 504 519 554  571 586 597 609	678 704 731 764 764 762 684 553 575	MIN SEPTEMB 654 670 704 728 761 684 525 526 5526	MEAN ER 666 681 718 754 763 739 595 538 566
DAY  1 2 3 4 5 6 7 8	MAX 426 392 424 485 488 500	MIN JUNE 339 353 392 471 482 487	MEAN  369 375 409 477 485 492	MAX	MIN JULY	MEAN	481 503 518 539 561 586 593 606	MIN AUGUST 463 481 488 505 536 560 583 590 602	MEAN  472 489 504 519 554  571 586 597	MAX  678 704 731 764 764 762 684 553	MIN SEPTEMB 654 670 704 728 761 684 525 526	MEAN ER 666 681 718 754 763 739 595 538
DAY  1 2 3 4 5 6 7 8 9 10	426 392 424  485 488 500 507 546	MIN JUNE 339 353 392 471 482 487 445 468	MEAN  369 375 409 477 485 492 481 517	MAX 465	MIN JULY 424	MEAN	MAX 481 503 518 539 561 586 593 606 613 613	MIN AUGUST 463 481 488 505 536 560 583 590 602 605	MEAN  472 489 504 519 554  571 586 597 609 610	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10	MAX  426 392 424 485 488 500 507 546	MIN JUNE 339 353 392 471 482 487 445 468 523	MEAN  369 375 409 477 485 492 481 517 542	MAX 465	MIN JULY 424	MEAN 435	MAX 481 503 518 539 561 586 593 606 613 613	MIN AUGUST 463 481 488 505 536 560 583 590 602 605	MEAN  472 489 504 519 554  571 586 597 609 610	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12	426 392 424  485 488 500 507 546 552 550	MIN  JUNE  339 353 392 471 482 487 445 468  523 520	MEAN  369 375 409 477 485 492 481 517  542 539	MAX 465 444 369	MIN JULY 424 337 278	MEAN 435 383 325	MAX 481 503 518 539 561 586 593 606 613 613 616	MIN AUGUST 463 481 488 505 536 560 583 590 602 605	MEAN  472 489 504 519 554  571 586 597 609 610 612 621	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13	426 392 424   485 488 500 507 546 552 550 615	MIN JUNE 339 353 392 471 482 487 445 468 523 520 550	MEAN  369 375 409 477 485 492 481 517 542 539 591	MAX 465 444 369 298	MIN JULY 424 337 278 256	MEAN 435 383 325 281	MAX  481 503 518 539 561 586 593 606 613 613 616 632 635	MIN AUGUST 463 481 488 505 536 560 583 590 602 605	MEAN  472 489 504 519 554  571 586 597 609 610 612 621 622	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12	426 392 424  485 488 500 507 546 552 550	MIN  JUNE  339 353 392 471 482 487 445 468  523 520	MEAN  369 375 409 477 485 492 481 517  542 539	MAX 465 444 369	MIN JULY 424 337 278	MEAN 435 383 325	MAX 481 503 518 539 561 586 593 606 613 613 616	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576	MEAN  472 489 504 519 554  571 586 597 609 610 612 621	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	426 392 424  485 488 500 507 546 552 655 662	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 615 653	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657	MAX 465 444 369 298 356 406	MIN JULY 424 337 278 256 295 251	MEAN 435 383 325 281 316 331	MAX 481 503 518 539 561 586 593 606 613 616 632 635 598 630	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605 606 615 589 576 597	MEAN  472 489 504 519 554  571 586 597 609 610 612 621 622 583 616	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	426 392 424  485 488 500 507 546 552 550 615 665 662	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657	MAX 465 444 369 298 356 406	MIN JULY 424 337 278 256 295 251	MEAN 435 383 325 281 316 331	MAX 481 503 518 539 561 586 593 606 613 613 616 632 635 598 630	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	426 392 424 485 488 500 507 546 552 550 615 655 662	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578	MAX 465 444 369 298 356 406	MIN  JULY  424  337 278 256 295 251 213 223	MEAN 435 383 325 281 316 331 234 232	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605 606 615 589 576 597	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503 482	784 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18	426 392 424  485 488 500 507 546 552 550 615 655 662 664 615 555	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545	MAX 465 444 369 298 356 406 255 234 235	MIN  JULY  424  337 278 256 295 251 213 223 184	MEAN 435 383 325 281 316 331 234 232 217	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605 606 615 589 576 597 450 450 522	MEAN  472 489 504 519 554  571 586 597 609 610  612 622 583 616  503 482 526	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	426 392 424  485 488 500 507 546 552 550 615 665 662 664 615 555 578	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545	MAX 465 444 369 298 356 406 255 234 235 184	MIN JULY 424 337 278 256 295 251 213 223 184 142	MEAN 435 383 325 281 316 331 234 232 217 164	MAX  481 503 518 539 561 586 593 606 613 613 616 632 635 598 630 597 531 534 551	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 450 522 493	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18	426 392 424  485 488 500 507 546 552 550 615 655 662 664 615 555	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545	MAX 465 444 369 298 356 406 255 234 235	MIN  JULY  424  337 278 256 295 251 213 223 184	MEAN 435 383 325 281 316 331 234 232 217	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 450 522 493	MEAN  472 489 504 519 554  571 586 597 609 610  612 622 583 616  503 482 526	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	426 392 424  485 488 500 507 546 552 550 615 665 662 664 615 555 578	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545	MAX 465 444 369 298 356 406 255 234 235 184	MIN JULY 424 337 278 256 295 251 213 223 184 142	MEAN 435 383 325 281 316 331 234 232 217 164	MAX  481 503 518 539 561 586 593 606 613 613 616 632 635 598 630 597 531 534 551	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 452 493 471	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	426 392 424 488 500 507 546 552 550 615 665 662 664 615 555 578 588	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572	MAX 465 444 369 298 356 406 255 234 235 184 268	MIN  JULY  424  337 278 256 295 251 213 223 184 142 143	MEAN 435 383 325 281 316 331 234 232 217 164 197	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534 551 493	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 450 452 493 471	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503 482 526 531 486	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	426 392 424  485 488 500 507 546 552 550 615 655 662 664 615 555 578 588 583 599	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 550 582 583	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572 569 589	MAX 465 444 369 298 356 406 255 234 235 184 268	MIN  JULY  424  337 278 256 295 251  213 223 184 142 143 268 323 388	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534 551 493 491 525 566	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605  606 615 589 576 597 450 450 452 493 471 472 490 518	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503 482 526 531 486 480 504 504	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	426 392 424  485 488 500 507 546 552 550 615 665 662 664 615 555 578 588	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 582 582 583 585	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572 569 589 588 597	MAX 465 444 369 298 356 406 255 234 235 184 268 323 412 414 393	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357	MAX  481 503 518 539 561 586 593 606 613 616 632 635 598 630 597 531 534 551 493 491 525 566 627	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531 486 480 504 504 510	MAX  678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	426 392 424  485 488 500 507 546 552 550 615 655 662 664 615 555 578 588 583 599	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 550 582 583	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572 569 589	MAX 465 444 369 298 356 406 255 234 235 184 268	MIN  JULY  424  337 278 256 295 251  213 223 184 142 143 268 323 388	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534 551 493 491 525 566	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503 482 526 531 486 480 504 504	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	426 392 424 427 485 488 500 507 546 552 550 615 655 662 664 615 555 578 588 588 599 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 582 582 583 585	MEAN  369 375 409 477 485 492 481 517  542 539 591 654 578 545 551 572 569 589 588 597 564	MAX 465 444 369 298 356 406 255 234 235 184 268 323 412 414 393 370	MIN  JULY  424  337 278 256 295 251  213 223 184 142 143 268 323 388 323 332	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534 551 493 491 525 566 627 662	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605  606 615 589 576 597 450 450 522 493 471 472 490 518 584 627	MEAN  472 489 504 519 554  571 586 597 609 610  612 622 583 616 503 482 526 531 486 480 504 504 652	MAX  678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	426 392 424  485 488 500 507 546 552 550 615 665 662 664 615 555 578 588 588 599 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 550 582 582 583 585 552	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572 569 589 589 587 564	MAX 465 444 369 298 356 406 255 234 235 234 235 412 414 393 370 409	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323 332 365	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353	MAX  481 503 518 539 561 586 593 606 613 616 632 635 598 630 597 531 534 551 493 491 525 566 627 662	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518 584 627	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616 503 482 526 531 486 480 504 542 610 652	MAX  678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	426 392 424 427 485 488 500 507 546 552 550 615 655 662 664 615 555 578 588 588 599 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 5550 550 582 583 585 552	MEAN  369 375 409 477 485 492 481 517  542 539 591 654 578 545 551 572 569 589 588 597 564	MAX 465 444 369 298 356 406 255 234 235 184 235 184 268 323 412 414 393 370 409 461	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323 388 323 365 401	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353	MAX  481 503 518 539 561 586 593 606 613 613 616 632 635 598 630 597 531 534 4551 493 491 525 566 627 662 666 643	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518 584 627	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531 486  480 504 542 610 652	MAX  678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	426 392 424  485 488 500 507 546 552 555 662 664 615 5578 588 583 596 599 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 535 535 550  582 583 585 552	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657  654 578 545 551 572  569 588 597 564	MAX 465 444 369 298 356 406 255 234 235 234 235 412 414 393 370 409	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323 332 365	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353	MAX 481 503 518 539 561 586 593 606 613 613 632 635 598 630 597 531 534 551 493 491 525 566 627 662 666 643 596 643 596 643 659 666 667 668 668 668 669 669 669 669 669	MIN  AUGUST  463 481 488 505 536  560 583 590 602 605  606 615 589 576 597  450 450 522 493 471 472 490 518 584 627	MEAN  472 489 504 519 554  571 586 597 609 610  612 622 583 616  503 482 526 531 486 480 504 504 612 652 666 611 588	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 754 763 739 595 538 566 564
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	426 392 424 488 500 507 546 552 550 615 655 662 664 615 555 578 588 588 599 602 599 602 599	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550  550 582 583 585 552	MEAN  369 375 409 477 485 492 517  542 539 591 633 657  654 578 545 551 572 569 588 597 564	MAX 465 444 369 298 356 406 255 234 235 184 268 323 412 414 393 370 409 461 474	MIN  JULY  424  337 278 256 295 251  213 223 184 142 143 268 323 388 323 388 323 365 401 431	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353 384 444 443 454	MAX  481 503 518 539 561 586 593 606 613 613 616 632 635 598 630 597 531 534 4551 493 491 525 566 627 662 666 643	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 450 522 493 471 472 490 518 584 627 643 585 586 604	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531 486  480 504 542 610 652	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	426 392 424  485 488 500 507 546 552 550 615 655 662 664 615 578 588 583 596 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653 615 555 535 550 550 582 582 583 585 552	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657 654 578 545 551 572 569 589 588 597 564	MAX 465 444 369 298 356 406 255 234 235 234 235 234 2414 393 370 409 461 474	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323 332 365 401 431	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353 384 443 454	MAX  481 503 518 539 561 586 593 606 613 616 632 635 598 630 597 531 534 551 493 491 525 566 627 662 666 643 591 612	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518 584 627 643 585 586 604 612	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531 486 480 504 542 610 652 656 611 588 607	678 704 731 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 718 754 763 739 595 538 566 564
DAY  1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	426 392 424  485 488 500 507 546 552 550 615 662 664 615 5578 588 588 596 599 602 585	MIN  JUNE  339 353 392 471 482 487 445 468  523 520 550 615 653  615 555 535 550 582 583 585 552	MEAN  369 375 409 477 485 492 481 517  542 539 591 633 657  654 578 545 572  569 589 587 564	MAX 465 444 369 298 356 406 255 234 235 184 268 323 412 414 393 370 409 461 474	MIN JULY 424 337 278 256 295 251 213 223 184 142 143 268 323 388 323 332 365 401 431	MEAN 435 383 325 281 316 331 234 232 217 164 197 303 371 402 357 353 384 443 454	MAX 481 503 518 539 561 586 593 606 613 613 616 632 635 598 630 597 531 534 493 491 525 566 627 662 666 643 591 612 613 614 615 615 615 615 615 615 615 615	MIN AUGUST 463 481 488 505 536 560 583 590 602 605 606 615 589 576 597 450 450 522 493 471 472 490 518 584 627 643 585 586 604 612 648	MEAN  472 489 504 519 554  571 586 597 609 610  612 621 622 583 616  503 482 526 531 486  480 504 542 610 652 656 611 588 607 627	678 704 731 764 764 762 684 553 575 569	MIN SEPTEMB 654 670 704 728 761 684 525 526 553 559	MEAN ER  666 681 754 763 739 595 538 566 564

311 TRINITY RIVER BASIN 08065350 Trinity River near Crockett, TX--Continued



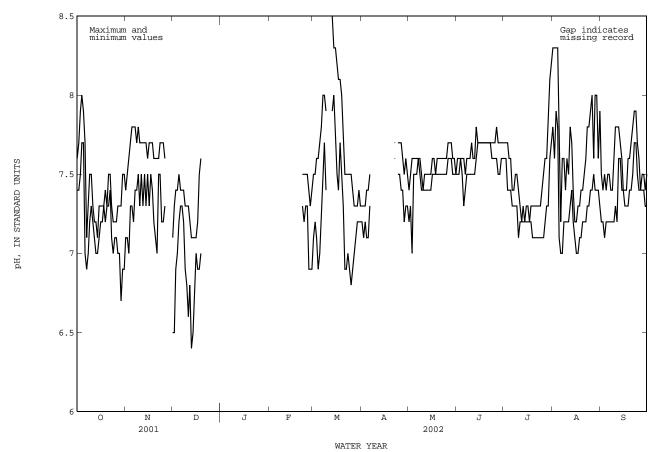
PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCT	OBER	NOVEN	MBER.	DECEM	BER .	JAN	JARY	FEBRU	JARY	MAI	RCH
1 2 3 4 5	7.6 7.7 7.9 8.0 7.9	7.4 7.4 7.5 7.7	7.4 7.5 7.6 7.7 7.8	7.1 7.1 7.0 7.3 7.3	7.1 7.3 7.4 7.4 7.5	6.5 6.5 6.9 7.0 7.2	  		 		7.5 7.5 7.6 7.6 7.7	7.1 7.2 7.1 6.9 7.0
6 7 8 9 10	7.7 7.1 7.3 7.5 7.5	7.0 6.9 7.0 7.2 7.3	7.8 7.8 7.7 7.8 7.7	7.2 7.4 7.4 7.5 7.3	7.4 7.4 7.4 7.3 7.3	7.3 7.3 7.2 6.9	  		  	  	7.8 8.0 8.0 7.9	7.3 7.5 7.7 7.4
11 12 13 14 15	7.3 7.2 7.2 7.1 7.3	7.2 7.1 7.0 7.0 7.1	7.7 7.7 7.7 7.7 7.6	7.5 7.3 7.5 7.3 7.5	7.3 7.2 7.1 7.1 7.1	6.6 6.8 6.4 6.5 6.8	  		  		8.5 8.3 8.3	 7.9 8.0 7.7
16 17 18 19 20	7.3 7.3 7.3 7.4 7.3	7.2 7.2 7.3 7.2 7.3	7.7 7.7 7.7 7.6 7.6	7.3 7.5 7.4 7.2 7.1	7.1 7.2 7.5 7.6	7.0 6.9 6.9 7.0	  		  	  	8.2 8.1 8.1 8.0 7.8	7.5 7.4 7.7 7.5 7.3
21 22 23 24 25	7.5 7.5 7.3 7.2 7.2	7.3 7.4 7.1 7.0 7.1	7.6 7.6 7.7 7.7 7.7	7.0 7.5 7.5 7.2 7.2	  	  	  		7.5 7.5 7.5 7.5 7.5	7.3 7.2 7.3 7.3	7.5 7.5 7.5 7.5 7.5	6.9 6.9 7.0 6.9 6.8
26 27 28 29 30 31	7.2 7.3 7.3 7.3 7.5 7.5	7.1 7.0 7.0 6.7 6.9 6.9	7.6   	7.3   	  	  	   	  	7.4 7.3 7.4 	6.9 6.9 6.9 	7.4 7.3 7.3 7.3 7.4 7.3	6.9 7.0 7.1 7.2 7.2
MONTH	8.0	6.7										

08065350 Trinity River near Crockett, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APF	RIL	MA	Y	JUI	ΝE	JUL	Ϋ́	AUGU	JST	SEPTE	MBER
1 2 3 4 5	7.3 7.3 7.3 7.4 7.4	7.2 7.1 7.2 7.1 7.1	7.4 7.5 7.6 7.6	7.2 7.3 7.0 7.5 7.5	7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.6 7.5 7.3	7.7 7.7 7.7 7.6 7.6	7.6 7.6 7.4 7.4 7.4	8.3 8.3 8.3 7.8	7.8 7.6 7.9 7.8 7.1	7.5 7.4 7.5 7.4 7.5	7.2 7.2 7.1 7.2 7.2
6 7 8 9 10	7.5   	7.3   	7.6 7.6 7.6 7.5 7.4	7.5 7.6 7.5 7.4 7.4	7.5 7.6 7.6 7.6 7.7	7.4 7.5 7.5 7.5 7.5	7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.3 7.1	7.2 7.6 7.6 7.4 7.6	7.0 7.0 7.2 7.2 7.2	7.5 7.4 7.4 7.6 7.8	7.2 7.2 7.2 7.2 7.3
11 12 13 14 15	  	  	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.4	7.6 7.6 7.8 7.7	7.5 7.5 7.6 7.7 7.7	7.3 7.2 7.3 7.2 7.3	7.2 7.2 7.2 7.2 7.2	7.5 7.8 7.7 7.4 7.2	7.2 7.3 7.4 7.2 7.1	7.8 7.8 7.7 7.6 7.4	7.2 7.6 7.6 7.4 7.4
16 17 18 19 20	  	  	7.6 7.6 7.5 7.6 7.6	7.5 7.5 7.5 7.5 7.5	7.7 7.7 7.7 7.7 7.7	7.7 7.7 7.7 7.7 7.7	7.3 7.2 7.3 7.3	7.2 7.2 7.2 7.1 7.1	7.2 7.3 7.3 7.4 7.4	7.0 7.0 7.1 7.1 7.2	7.4 7.4 7.6 7.6 7.7	7.3 7.3 7.3 7.4 7.4
21 22 23 24 25	7.7  7.7 7.7	7.6  7.5 7.5	7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.5 7.5 7.5	7.7 7.7 7.7 7.7 7.7	7.7 7.7 7.6 7.6 7.6	7.3 7.3 7.3 7.3 7.4	7.1 7.1 7.1 7.1 7.1	7.5 7.6 7.8 7.8 7.9	7.2 7.2 7.3 7.3 7.4	7.8 7.9 7.9 7.7 7.6	7.5 7.7 7.7 7.5 7.4
26 27 28 29 30 31	7.7 7.6 7.5 7.6 7.5	7.4 7.4 7.2 7.3 7.3	7.7 7.7 7.7 7.6 7.6 7.5	7.6 7.6 7.6 7.5 7.5	7.8 7.7 7.7 7.7 7.7	7.6 7.5 7.5 7.6 7.6	7.5 7.6 7.6 7.8 8.1 8.2	7.1 7.2 7.3 7.3 7.6 7.7	8.0 7.6 8.0 8.0 7.6 7.9	7.4 7.5 7.4 7.4 7.4 7.3	7.4 7.5 7.5 7.4 7.5	7.4 7.4 7.4 7.3 7.3
MONTH			7.7	7.0	7.8	7.3	8.2	7.1	8.3	7.0	7.9	7.1



TRINITY RIVER BASIN

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# 08065350 Trinity River near Crockett, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

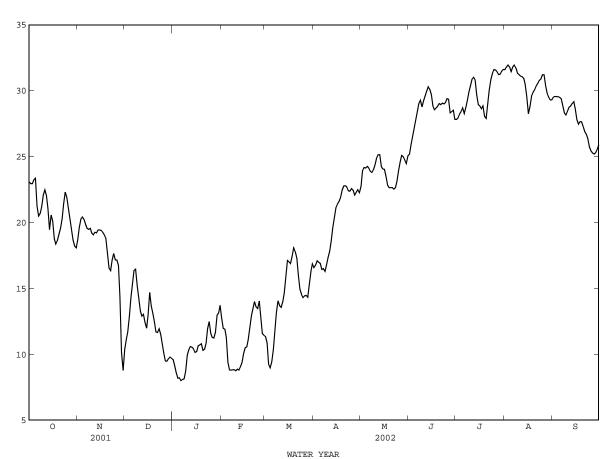
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		Ι	DECEMBER			JANUARY	
1 2 3 4 5	23.8 23.6	22.3 22.1 22.1 22.6 22.8	23.1 22.9 22.9 23.2 23.4	19.3 20.2 20.9 21.0 20.8	18.0 19.1 19.6 19.8 19.7		10.9 11.5 12.1 13.6 14.8	10.8	10.4 11.1 11.7 12.9 14.3	9.7 9.3 8.9 8.4 8.3	9.5 8.9 8.4 8.0	9.6 9.1 8.6 8.2 8.2
6 7 8 9 10	22.8 21.0 21.5 21.7 22.5	19.9	21.2 20.5 20.7 21.2 22.1	20.4 20.0 19.9 19.8 19.4	19.2 19.0 19.0 19.3 19.0	19.9 19.6 19.5 19.6 19.2	15.9 16.8 16.8 15.8 14.7	14.8 15.8 15.8 14.7 13.8	15.3 16.4 16.5 15.2 14.3	8.1 8.4 8.4 9.3 10.3	7.8 7.9 7.8 8.2 9.3	8.1
11 12 13 14 15	22.7 22.3 22.2 19.9 21.4	21.6 19.9 19.0	22.5 22.0 21.1 19.5 20.6	19.5 19.5 19.7 19.9 19.7	18.7 19.0 18.8 19.0 19.2	19.1 19.3 19.2 19.4 19.4	13.8 13.2 13.2 12.7 12.3	12.8 12.6 12.7 12.2 11.8	13.3 12.9 13.0 12.4 12.0	10.6 11.0 10.9 10.8 10.4	10.2	10.6
16 17	21.0 19.4 18.7 19.1 19.6	18.5 18.0 18.2	20.1 18.8 18.4 18.6 19.1	19.5 19.6 19.6 19.1 18.3	19.2 19.0 18.7 18.3 17.1	19.4 19.3 19.1 18.8 17.7	14.7 15.0 14.6 13.5 12.9		13.0 14.7 13.7 13.1 12.4		9.9 10.4 10.7 10.6 10.1	10.6 10.7 10.8
21 22 23 24 25	22.0	19.8 20.8 21.7		17.1 16.8 17.7 18.1 17.6			12.0 11.9 12.0 11.7 11.1		11.7 11.6 11.9 11.5 10.8		10.0 10.4 11.2 11.9 11.2	10.4 10.8 11.9 12.5 11.6
26 27 28 29 30 31	21.6 20.8 20.1 19.2 18.8 18.5	19.8 19.0 18.1 17.5			16.7 15.9 11.8 8.3 7.8		10.5 9.7 9.7 9.8 9.9 9.8				10.9 11.3 12.5	11.3 11.2 11.7 12.9 13.1 13.7
MONTH	23.9	17.4	20.7	21.0	7.8	18.0	16.8	9.3	12.4	13.9	7.8	10.4
11011111												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	MEAN
	13.3 12.2 12.4 12.6	FEBRUARY			MARCH			APRIL		MAX 23.5 24.3 24.3 24.6 24.5	MAY	MEAN 22.7 23.9 24.2 24.1 24.3
DAY  1 2 3 4 5 6 7 8 9	13.3 12.2 12.4 12.6 10.0 9.1 9.0 9.0 9.0	12.2 11.8 11.5 10.0 9.1 8.7 8.6 8.6 8.7 8.5	12.7 12.0 11.9 11.3 9.4		MARCH 11.2 9.8 8.7 8.3 8.7		16.7 17.2 17.2 17.2 17.1	16.4 16.4 17.0 16.8 16.7	16.6 16.8 17.1 17.0 16.9		MAY 22.2 23.5 24.0 23.7 24.1	22.7 23.9 24.2 24.1 24.3 24.1 23.9
DAY  1 2 3 4 5 6 7 8 9 10	13.3 12.2 12.4 12.6 10.0 9.1 9.0 9.0 9.0	12.2 11.8 11.5 10.0 9.1	12.7 12.0 11.9 11.3 9.4 8.8 8.8 8.8 8.8	11.5 11.5 9.8 9.7 10.2	MARCH 11.2 9.8 8.7 8.3 8.7 9.6 10.9 12.6 13.7 13.2	11.4 10.9 9.3 9.0 9.4 10.4 11.9 13.2 14.1	16.7 17.2 17.2 17.2 17.1	APRIL  16.4 17.0 16.8 16.7  16.3 16.2 16.1 16.4 17.1	16.6 16.8 17.1 17.0 16.9 16.4 16.5 16.3 16.8 17.4	23.5 24.3 24.3 24.6 24.5	MAY  22.2 23.5 24.0 23.7 24.1 23.8 23.6 23.3 23.8 24.0	22.7 23.9 24.2 24.1 24.3 24.1 23.9 23.8 24.0 24.4
DAY  1 2 3 4 4 5 6 7 8 9 10 11 12 13 14	13.3 12.2 12.4 12.6 10.0 9.1 9.0 9.0 9.0 9.0 9.0 9.0	FEBRUARY  12.2 11.8 11.5 10.0 9.1  8.7 8.6 8.6 8.7 8.5  8.6 8.7 9.7 10.1 10.2	12.7 12.0 11.9 11.3 9.4 8.8 8.8 8.8 8.8 8.8 8.8 9.0 9.4	11.5 9.8 9.7 10.2 11.0 12.7 13.8 14.6 14.3 13.7 14.7 15.5 16.6	MARCH  11.2 9.8 8.7 8.3 8.7  9.6 10.9 12.6 13.7 13.2 13.5 13.8 14.8 16.5	11.4 10.9 9.3 9.0 9.4 10.4 11.9 13.7 13.6 14.0 15.8	16.7 17.2 17.2 17.2 17.1 16.7 16.5 17.2 17.6 18.3 19.3 20.1 20.9	APRIL  16.4 17.0 16.8 16.7  16.3 16.2 16.1 17.1  17.4 18.2 19.2 20.0	16.6 16.8 17.1 17.0 16.9 16.4 16.3 16.8 17.4 17.8 18.6 19.6 20.4	23.5 24.3 24.6 24.5 24.6 24.1 24.2 24.2 24.8 25.2 25.5 25.4	MAY  22.2 23.5 24.0 23.7 24.1 23.8 23.6 23.3 23.8 24.0 24.6 24.8 24.9 23.9	22.7 23.9 24.2 24.1 24.3 24.1 23.9 23.8 24.0 24.4 24.9 25.1 25.1 24.2
DAY  1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19	13.3 12.2 12.4 12.6 10.0 9.1 9.0 9.0 9.0 9.0 9.0 9.1 9.7 10.5 10.9 10.8 11.6	FEBRUARY  12.2 11.8 11.5 10.0 9.1  8.7 8.6 8.6 8.7 8.5  8.6 8.7 9.0 9.7  10.1 10.2 10.7 11.6 12.4 13.1 13.8	12.7 12.0 11.9 11.3 9.4 8.8 8.8 8.8 8.8 8.9 9.4 10.1 10.5 10.6 11.1 12.0	11.5 9.8 9.7 10.2 11.0 12.7 13.8 14.6 14.3 13.7 14.7 15.5 16.6 17.8 17.3 17.1 17.9 18.4	MARCH  11.2 9.8 8.7 8.3 8.7 9.6 10.9 12.6 13.7 13.2 13.5 13.5 13.8 14.8 16.5 16.8 16.6 16.9 17.6	11.4 10.9 9.3 9.0 9.4 10.4 11.9 13.7 13.6 14.0 15.8 17.1 17.0 16.9 17.4 18.1	16.7 17.2 17.2 17.2 17.1 16.7 16.5 17.2 17.6 18.3 19.3 20.1 20.9 21.5 21.7 21.9 22.3 22.9	APRIL  16.4 17.0 16.8 16.7 16.3 16.2 16.1 17.4 18.2 19.2 20.0 20.7 21.2 21.4 21.5 22.1	16.6 16.8 17.1 17.0 16.9 16.4 16.3 16.8 17.4 17.8 18.6 20.4 21.1 21.4 21.6 21.9 22.5	23.5 24.3 24.6 24.5 24.6 24.1 24.2 24.2 24.2 25.5 25.4 24.9 24.3 24.4 24.0 23.1 23.0	MAY  22.2 23.5 24.0 23.7 24.1  23.8 23.6 23.3 23.8 24.0  24.6 24.8 24.9 23.9 23.8  22.7 22.7	22.7 23.9 24.2 24.1 24.3 24.1 23.8 24.0 24.4 24.9 25.1 25.1 24.2 24.1 24.0 23.5 22.8
DAY  1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	13.3 12.2 12.4 12.6 10.0 9.1 9.0 9.0 9.0 9.0 9.1 9.7 10.5 10.9 10.8 11.6 12.5 13.5	FEBRUARY  12.2 11.8 11.5 10.0 9.1 8.7 8.6 8.6 8.7 8.5 8.6 8.5 8.7 9.0 9.7 10.1 10.2 10.7 11.6 12.4 13.1 13.8 13.2 13.0 13.6 11.8	12.7 12.0 11.9 11.3 9.4 8.8 8.8 8.8 8.8 9.0 9.4 10.1 10.5 10.6 11.1 12.0 12.9 13.5 14.0 13.6	11.5 9.8 9.7 10.2 11.0 12.7 13.8 14.6 14.3 13.7 14.7 15.5 16.6 17.8 17.3 17.1 17.9 18.4 18.1	MARCH  11.2 9.8 8.7 8.3 8.7 9.6 10.9 12.6 13.7 13.2 13.5 13.8 14.8 16.5 16.8 16.6 17.4 16.9 17.6 17.4	11.4 10.9 9.3 9.0 9.4 10.4 11.9 13.7 13.6 14.1 15.8 17.1 17.0 16.9 17.4 18.1 17.8	16.7 17.2 17.2 17.2 17.1 16.7 16.5 17.2 17.6 18.3 19.3 20.1 20.9 21.5 21.7 21.9 22.3 22.9 23.1	APRIL  16.4 17.0 16.8 16.7 16.3 16.2 16.1 17.1 17.4 18.2 19.2 20.0 20.7 21.2 21.4 21.5 22.5 22.5 22.6 22.1 22.1	16.6 16.8 17.1 17.0 16.9 16.4 16.3 16.8 17.4 17.8 18.6 19.6 20.4 21.1 21.4 21.6 21.9 22.5 22.8 22.8 22.7 22.4	23.5 24.3 24.6 24.5 24.6 24.1 24.2 24.2 24.8 25.2 25.5 25.4 24.9 24.3 24.9 24.3 24.9 24.3 24.9 24.3	MAY  22.2 23.5 24.0 23.7 24.1  23.8 23.6 23.3 23.8 24.0  24.6 24.8 24.9 23.9 23.8  22.9 23.8  22.9 22.3 22.3	22.7 23.9 24.2 24.1 24.3 24.1 23.9 24.0 24.4 24.9 25.1 24.2 24.1 24.0 23.5 22.6 22.6 22.6 22.5 22.5 22.5

DAILY MEAN WATER TEMPERATURE, IN DEGREES CENTIGRADE

08065350 Trinity River near Crockett, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST			SEPTEMBE	R
1	25.6	24.6	25.2	28.4	27.4	27.8	32.3	30.9	31.6	30.1	28.9	29.5
2	26.3	25.4	25.9	28.6	27.4	27.9	32.6	30.9	31.8	30.1	29.1	29.6
3	27.1	26.0	26.5	28.9	27.7	28.2	32.5	31.3	31.9	30.2	28.9	29.6
4	27.8	26.5	27.1	29.1	27.7	28.4	32.7	30.9	31.8	29.9	29.1	29.5
5	28.6	27.0	27.7	29.1	28.3	28.7	32.2	30.5	31.5	30.2	28.8	29.5
6	29.2	27.6	28.4	28.8	27.7	28.3	32.7	30.9	31.8	29.9	29.0	29.4
7	29.8	28.3	29.0	29.2	28.3	28.7	32.6	31.2	31.9	29.3	28.6	28.9
8	29.9	28.8	29.3	29.8	28.8	29.3	32.2	31.2	31.7	28.7	28.0	28.3
9	29.4	28.4	28.8	30.6	29.3	29.9	31.8	31.0	31.3	28.7	27.8	28.2
10	30.2	28.3	29.2	31.2	29.7	30.4	31.8	30.7	31.2	29.1	27.7	28.4
11	30.1	29.0	29.6	31.6	30.1	30.9	31.9	30.4	31.1	29.3	27.9	28.7
12	30.6	29.3	30.0	31.5	30.7	31.0	31.7	30.5	31.1	29.5	28.0	28.8
13	31.0	29.8	30.3	31.6	30.3	30.8	31.7	30.2	30.9	29.4	28.5	29.0
14	30.7	29.7	30.1	30.3	29.2	29.7	30.8	30.2	30.5	29.6	28.8	29.2
15	30.1	29.3	29.7	29.2	28.8	28.9	30.3	28.5	29.5	29.0	28.2	28.6
16	29.3	28.5	28.9	29.0	28.5	28.8	28.7	27.8	28.3	28.2	27.4	27.8
17	29.2	27.9	28.6	29.2	28.2	28.6	29.7	28.0	28.8	27.9	27.0	27.4
18	29.3	28.1	28.7	29.4	28.4	28.9	30.4	28.9	29.6	28.0	27.2	27.7
19	29.5	28.2	28.8	28.8	27.7	28.1	30.6	29.2	29.9	27.9	27.5	27.6
20	29.4	28.8	29.0	28.5	27.3	27.9	30.9	29.4	30.1	28.0	26.6	27.3
21	29.6	28.4	28.9	29.8	28.4	29.1	31.3	29.6	30.4	27.7	26.0	26.9
22	29.8	28.4	29.1	30.7	29.4	30.0	31.4	29.7	30.6	27.4	25.9	26.7
23	29.6	28.6	29.0	31.5	30.2	30.8	31.5	30.0	30.8	26.9	25.9	26.3
24	30.1	28.3	29.1	32.2	30.5	31.3	31.6	30.1	30.9	26.2	25.4	25.8
25	30.3	28.6	29.4	32.5	30.8	31.6	32.0	30.4	31.2	26.0	24.9	25.4
26 27 28 29 30 31	30.2 29.0 29.4 29.0 28.1	28.7 27.6 27.5 28.1 27.7	29.4 28.3 28.4 28.5 27.8	32.3 32.1 31.9 32.1 32.2 32.4	30.8 30.8 30.5 30.4 30.8 30.9	31.6 31.5 31.2 31.3 31.5 31.6	31.9 31.3 30.7 30.2 29.8 30.0	30.5 29.8 29.1 28.9 28.6 28.6	31.2 30.4 29.8 29.5 29.3	26.0 26.0 26.1 26.3 26.5	24.7 24.3 24.5 24.8 25.3	25.3 25.2 25.3 25.5 25.9
MONTH	31.0	24.6	28.6	32.5	27.3	29.8	32.7	27.8	30.6	30.2	24.3	27.7
YEAR	32.7	7.8	20.7									



TRINITY RIVER BASIN

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08065350 Trinity River near Crockett, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

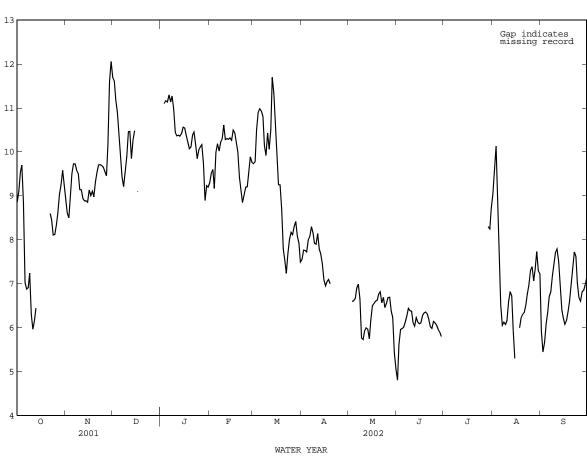
DAY	MAX	MIN	MEAN	MAX			MAX	MIN		MAX	MIN	MEAN
		OCTOBER			NOVEMBER		D	ECEMBER			JANUARY	
1 2 3 4 5	9.3 9.7 10.4 11.1 9.6	8.4 8.6 8.8 8.9 8.2	8.9 9.1 9.5 9.7 8.9	9.4 9.0 9.2 10.0 10.3	8.6 8.3 8.1 8.1	9.0 8.6 8.5 9.0 9.5	12.0 12.0 11.4 11.9 10.8	11.3 10.9	11.7 11.6 11.2 10.9 10.4	11.5 11.9 11.4	10.8 10.9 10.8	11.1 11.2 11.1
6 7 8 9 10	8.2 7.2 7.6 7.8 7.2	6.5 6.4 6.3 6.8 5.7	7.0 6.9 6.9 7.2 6.3	10.6 10.7 10.2 10.2 9.6	9.0 9.1 9.2 8.9 8.7	9.7 9.7 9.6 9.5 9.1	10.2 9.7 9.9 10.3 10.7	9.6 9.1 9.0 9.1 9.6	9.9 9.4 9.2 9.6 9.9	12.6 11.9 11.9 11.4 10.6	10.6 10.6 11.0 10.6 10.2	11.3 11.1 11.3 11.0 10.4
11 12 13 14 15	6.2 6.3 7.1 	5.6 5.9 5.7 	6.0 6.2 6.4 	9.8 9.4 9.3 9.6 9.4	8.7 8.7 8.6 8.6 8.5	9.1 8.9 8.9 8.9	10.7 11.2 10.0 11.0 11.1	9.5 9.8	10.5 10.5 9.8 10.3 10.5	11.3 11.1 10.7 10.6 10.9	10.1 9.9 9.9 10.2 10.4	10.4 10.4 10.4 10.4 10.6
16 17 18 19 20	  	  	  	9.3 9.3 10.0 9.7 9.8	9.0 8.8 8.7 8.7	9.1 9.0 9.1 9.0 9.3	10.8 9.2 	9.2 8.7 	9.1 	10.9 10.8 10.6 10.3 10.4	10.2 10.1 10.0 9.9 9.8	10.5 10.4 10.2 10.1
21 22 23 24 25	8.8 8.6 8.5 8.3	8.1 8.1 7.4 7.9	8.6 8.5 8.1 8.1	10.0 10.0 10.0 10.0 10.1	9.0 9.4 9.5 9.4 9.4	9.5 9.7 9.7 9.7 9.7	  	  	  	11.0 10.9 10.9 10.2 10.4	10.1 10.2 9.7 9.6 9.6	10.4 10.5 10.2 9.8 10.0
26 27 28 29 30 31	8.6 8.9 9.8 9.7 10.1 9.9	8.1 8.3 8.7 8.9 9.2 8.7	8.3 8.6 9.0 9.3 9.6 9.3	9.9 9.9 11.9 12.3 12.7	9.1 9.5	9.6 9.5 10.2 11.6 12.1	  	  	   	10.4 10.5 10.4 9.7 9.5 9.6	9.9 9.9 9.1 8.6 9.0	10.1 10.2 9.7 8.9 9.2 9.2
MONTH				12.7	8.1	9.5						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3	9.5		0 0	10.1	9.5	0.7	0 1	7.3	7.5			
4 5	9.8 10.0 9.8 10.5	9.0 9.3 9.3 8.6 9.7	9.3 9.5 9.6 9.2	10.3 11.1 11.4 11.5	9.4 9.9 10.6	9.7 9.8 10.5 10.9 11.0	8.1 8.5 8.1 8.1 8.6	7.5 7.5 7.6 7.8	7.8 7.8 7.7 8.0	6.6 6.7 6.8	6.5 6.6 6.6	6.6 6.6 6.7
	10.0 9.8	9.3 9.3 8.6 9.7 9.9 9.8 9.8	9.5 9.6 9.2	10.3 11.1 11.4	9.4 9.9 10.6 10.6 10.5 10.3 9.5 9.1	9.8 10.5 10.9	8.5 8.1 8.1	7.5 7.5 7.6	7.8 7.7	 6.6 6.7	6.5 6.6	6.6 6.6
5 6 7 8 9 10 11 12	10.0 9.8 10.5 10.6 10.4 10.9 10.9 11.3	9.3 9.3 8.6 9.7 9.9 9.8 10.0 10.2	9.5 9.6 9.2 10 10.2 10.0 10.2 10.3	10.3 11.1 11.4 11.5 11.5 12.0 10.5 10.8 11.7	9.4 9.9 10.6 10.6 10.5 10.3 9.5 9.1 9.4	9.8 10.5 10.9 11.0 10.9 10.8 10.2 9.9	8.5 8.1 8.6 8.4 8.8 9.4 8.6	7.5 7.5 7.6 7.8 7.9 8.0 7.9 7.7 7.7	7.8 7.7 8.0 8.1 8.3 8.2 7.9	6.6 6.7 6.8 7.0 7.0 6.9 6.6	6.5 6.6 6.6 6.8 6.9 6.5 5.3 5.5	6.6 6.7 6.9 7.0 6.7 5.8
5 6 7 8 9 10 11 12 13 14	10.0 9.8 10.5 10.6 10.4 10.9 11.3 10.6 10.8 11.6 10.7	9.3 9.3 8.6 9.7 9.9 9.8 10.0 10.2	9.5 9.6 9.2 10 10.2 10.0 10.2 10.3 10.6 10.3 10.3 10.3	10.3 11.1 11.4 11.5 11.5 12.0 10.5 10.8 11.7 10.5 12.3 13.1 12.7	9.4 9.9 10.6 10.6 10.5 10.3 9.5 9.1 9.4 9.5 9.0 10.3	9.8 10.5 10.9 11.0 10.8 10.2 9.9 10.4 10.1 10.5 11.7 11.3	8.5 8.1 8.6 8.4 8.8 9.4 8.6 8.7 9.3 8.2 8.3	7.5 7.5 7.6 7.8 7.9 8.0 7.9 7.7 7.7 7.5 7.4 7.2	7.8 7.7 8.0 8.1 8.3 8.2 7.9 7.9 7.9	6.6 6.7 6.8 7.0 7.0 6.9 6.6 5.8 6.0 6.0 6.1 6.1	6.5 6.6 6.6 6.9 6.5 5.3 5.9 5.9 5.5	6.6 6.6 6.7 6.9 7.0 6.7 5.8 5.7 5.9 6.0 5.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	10.0 9.8 10.6 10.4 10.9 10.9 11.3 10.6 10.8 11.6 10.7 10.7	9.3 9.3 8.6 9.7 9.9 9.8 10.0 10.2 10.0 9.9 10.0 9.9 10.1 10.2 9.9	9.5 9.6 9.2 10 10.2 10.3 10.3 10.3 10.3 10.3 10.3 10.4 10.2	10.3 11.1 11.4 11.5 11.5 12.0 10.5 10.8 11.7 10.5 12.3 13.1 12.7 11.7	9.4 9.9 10.6 10.6 10.5 10.3 9.5 9.1 9.4 9.5 9.0 10.3 10.4 9.7	9.8 10.5 10.9 11.0 10.8 10.2 9.9 10.4 10.1 10.5 11.7 11.3 10.6 9.9 9.3 9.3	8.5 8.1 8.6 8.4 8.8 9.4 8.6 8.7 9.3 8.2 8.3 8.0 7.5 7.3 7.2 7.3	7.5 7.6 7.8 7.9 8.0 7.9 7.7 7.7 7.9 7.5 7.4 7.2 6.8 6.7 6.8 6.7	7.8 7.7 8.0 8.1 8.3 8.2 7.9 7.9 7.9 7.5 7.1 7.0 7.0 7.1	6.6 6.7 6.8 7.0 7.0 6.9 6.6 5.8 6.0 6.1 6.1 6.4 6.6 6.6 6.6 6.6	6.5 6.6 6.8 6.5 5.3 5.8 5.9 5.5 6.3 6.4 6.5 6.5	6.6 6.6 6.7 6.9 7.0 6.7 5.8 5.7 5.9 6.0 5.8 6.5 6.6 6.6
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.0 9.8 10.5 10.6 10.4 10.9 10.9 11.3 10.6 10.7 10.7 10.7 10.7 10.5 10.3 9.7 9.3 9.3 9.4	9.3 9.3 8.6 9.7 9.9 9.8 10.0 10.0 9.9 10.1 10.2 9.9 9.9 10.1 10.2 9.9 9.8 9.8	9.5 9.6 9.2 10.0 10.2 10.3 10.3 10.3 10.3 10.3 10.3 10.4 10.9 10.	10.3 11.1 11.4 11.5 11.5 12.0 10.5 10.8 11.7 10.5 12.3 13.1 12.7 11.7 10.6 10.1 10.5 9.3 8.1	9.4 9.9 10.6 10.6 10.5 10.3 9.5 9.1 9.4 9.5 9.0 10.3 10.4 9.7 9.1 8.7 8.0 7.4 7.2 6.9 7.4 7.7	9.8 10.5 10.9 11.0 10.8 10.2 9.9 10.4 10.1 10.5 11.7 11.3 10.6 9.9 9.3 9.2 8.7 7.8 7.5 7.2 7.7	8.5 8.1 8.6 8.4 8.8 9.4 8.6 8.7 9.3 8.0 7.5 7.3 7.2 7.4 7.3	7.5 7.6 7.8 7.9 8.0 7.9 7.7 7.7 7.9 7.5 7.4 7.2 6.8 6.7 6.8 6.7	7.8 7.7 8.0 8.1 8.3 8.2 7.9 7.9 8.1 7.5 7.1 7.0 7.0 7.1 7.0	6.6 6.7 6.8 7.0 7.0 6.9 6.6 5.8 6.0 6.1 6.1 6.4 6.6 6.6 6.7 6.7 6.8		6.6 6.6 6.7 6.9 7.0 5.8 5.7 5.9 6.0 6.8 6.6 6.8 6.6 6.8 6.6 7

DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER

08065350 Trinity River near Crockett, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		I	AUGUST		5	SEPTEMBE	R
1 2 3 4 5	5.1 6.0 6.1 6.1 6.2	4.6 5.0 5.9 5.9 5.8	4.8 5.6 6.0 6.0	  	  	  	10.8 11.3 11.5 10.8 8.6	7.0 7.8 8.9 7.5 6.5	9.0 9.5 10.1 9.1 7.5	6.8 5.7 6.1 6.6 6.9	5.4 5.3 5.3 5.6 6.0	5.9 5.5 5.7 6.1 6.4
6 7 8 9 10	6.3 6.4 6.7 6.6 6.7	5.8 6.0 6.1 6.0 6.0	6.1 6.3 6.4 6.4	  	  	  	7.7 7.0 7.0 6.9 7.0	5.6 5.3 5.5 5.5 5.5	6.5 6.1 6.1 6.2	7.4 7.4 7.7 8.1 8.3	6.2 6.3 6.6 7.0 7.2	6.7 6.8 7.2 7.5 7.7
11 12 13 14 15	6.5 6.4 6.8 6.5 6.4	5.8 5.6 6.0 5.9 6.0	6.1 6.0 6.2 6.1	  	  	  	7.6 7.8 7.3 6.5 5.5	5.8 6.2 6.3 5.4 5.2	6.6 6.8 6.7 5.9 5.3	8.4 8.3 7.3 6.7 6.5	7.4 7.0 6.6 6.2 6.1	7.8 7.5 6.9 6.4 6.2
16 17 18 19 20	6.3 6.7 6.6 6.7 6.6	6.0 6.2 6.2 6.2	6.1 6.3 6.3 6.4 6.3	  	  	  	6.1 6.3 6.3	 5.7 6.1 6.3	6.0 6.2 6.3	6.2 6.5 6.8 7.0 7.5	6.0 6.0 6.3 6.6	6.1 6.2 6.4 6.6 7.0
21 22 23 24 25	6.4 6.1 6.3 6.7 6.6	6.0 5.8 5.8 5.9	6.2 6.0 6.0 6.1 6.1	  	  	  	6.5 6.8 7.2 7.5 8.0	6.2 6.3 6.4 6.6 6.8	6.3 6.5 6.8 7.0 7.3	8.2 8.7 8.0 7.3 6.9	6.8 7.1 7.2 6.7 6.4	7.3 7.7 7.6 7.0 6.7
26 27 28 29 30 31	6.4 6.3 6.4 6.0	5.9 5.6 5.6 5.6	6.1 6.0 5.9 5.8	 8.7 9.3 10.0	  7.8 7.4 7.7	  8.3 8.2 8.7	8.2 7.5 8.1 8.6 7.7 7.9	6.8 6.9 6.8 7.0 7.0	7.4 7.1 7.3 7.7 7.3 7.2	7.0 7.3 7.2 7.5 7.7	6.3 6.6 6.6 6.8	6.6 6.8 6.9 7.0 7.1
MONTH										8.7	5.3	6.8



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### 08065800 Bedias Creek near Madisonville, TX

LOCATION.--Lat 30°53′05", long 95°46′40", Madison-Walker County line, Hydrologic Unit 12030202, on right bank at downstream side of bridge on U.S. Highways 75 and 190, 0.5 mi upstream from Interstate Highway 45, 1.5 mi downstream from Caney Creek, and 9.5 mi southeast of Madisonville.

DRAINAGE AREA. -- 321 mi<sup>2</sup>.

PERIOD OF RECORD. -- Oct. 1967 to current year.

Water-quality records. --Chemical data: July 1962 to Apr. 1964, Jan. 1968 to Sept. 1974, Oct. 1984 to Sept. 1987. Biochemical data: Sept. 1970 to Sept. 1974, Apr. 1985 to June 1988, Apr. 1993 to Sept. 1995. Pesticide data: Apr. 1985 to Apr. 1988. Suspended sediment data: Oct. 1984 to Sept. 1986. Specific conductance: Oct. 1984 to Sept. 1987. Water temperature: Oct. 1984 to Sept. 1987.

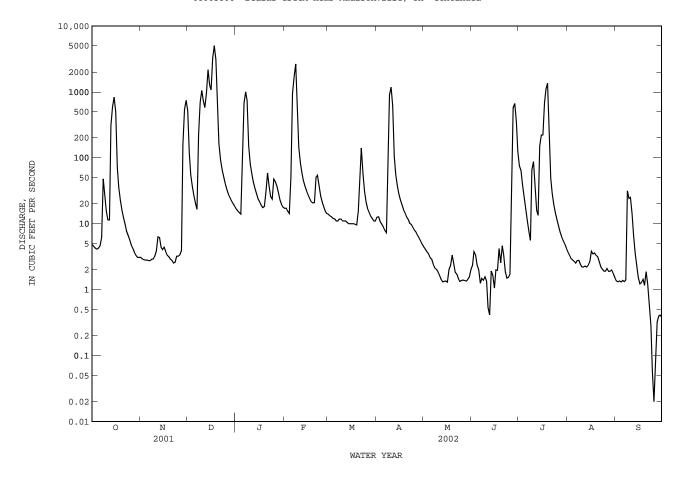
GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 150.00 ft above NGVD of 1929. Satellite telemeter at station

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. Flow may be slightly affected at times by discharge from the flood-detention pools of three floodwater-retarding structures. These structures control runoff from 2.71 mi<sup>2</sup> in the upper Caney Creek and Town Branch drainage basins. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1910, 34 ft in May 1922 (discharge unknown), from information by local resident.

		DISCHAF	RGE, CUBI	C FEET PER		WATER Y	EAR OCTOBER ALUES	2001 T	O SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.8 4.5 4.3 4.1 4.2	3.1 2.9 2.9 2.8 2.8	518 116 55 37 27	17 16 15 14 142	17 17 15 14 51	14 13 13 12 12	13 13 11 10 9.0	4.4 4.1 3.7 3.5 3.0	2.3 3.8 3.4 2.3 2.0	75 64 38 27 18	3.8 3.4 3.0 2.8 2.7	1.4 1.3 1.4 1.3
6 7 8 9 10	4.6 6.2 48 27 16	2.8 2.8 2.9 2.9 3.2	20 17 228 703 1050	677 1000 745 152 80	962 1690 2650 642 146	11 11 12 12 11	8.0 7.3 201 898 1180	2.9 2.4 2.1 2.0 1.9	1.2 1.5 1.4 1.6	11 7.7 5.6 66 88	2.5 2.8 2.8 2.4 2.2	1.3 1.4 31 24 25
11 12 13 14 15	11 11 309 589 835	3.9 6.3 6.1 4.5 4.1	722 579 960 2170 1270	57 43 34 28 24	146 85 59 45 37 32	11 11 10 10	621 105 56 38 28	1.7 1.4 1.3 1.3	0.53 0.41 1.9 1.6 1.1	34 16 13 152 220	2.2 2.3 2.2 2.3 2.6	14 6.5 3.5 2.3 1.5
16 17 18 19 20	500 71 36 23 16		1070 3250 5020 3100 755	22 19 18 18 31	27 24 22 21 21	10 10 9.8 9.6 15	13	3.3	4.6	1350 207		1.2 1.3 1.4 1.2 1.9
21 22 23 24 25	12 9.7 7.6 6.6 5.6	2.8 2.5 2.6 3.2 3.2		59 38 26 24 48			12 10 9.7 8.8 8.0			49 29 20 15	2.6 2.2 2.1 1.9	1.2 0.59 0.29 0.06 0.02
26 27 28 29 30 31	4.7 4.3 3.7 3.3 3.1 3.1	3.4 3.9 161 541 746	34 28 25 22 20 19	44 37 30 23 19 18	18 15 14 	17 15 13 12 11	7.4 6.7 6.0 5.4 4.8	1.4 1.3 1.4 1.5 2.0	44 577 666 356 126	9.2 7.5 6.4 5.6 4.9 4.3	2.1 1.9 1.9 2.0 1.8 1.5	0.10 0.32 0.40 0.41 0.38
TOTAL MEAN MAX MIN AC-FT	2588.4 83.50 835 3.1 5130	1541.2 51.37 746 2.5 3060	22230 717.1 5020 17 44090	3518 113.5 1000 14 6980	6812 243.3 2650 14 13510	611.4 19.72 140 9.6 1210	3363.1 112.1 1180 4.8 6670	65.2 2.103 4.4 1.3 129	1820.64 60.69 666 0.41 3610	4563.2 147.2 1350 4.3 9050	79.3 2.558 3.8 1.5 157	128.07 4.269 31 0.02 254
STATIS	TICS OF M	IONTHLY MEA	AN DATA F	OR WATER Y	EARS 1968	- 2002	, BY WATER	YEAR (W	Y)			
MEAN MAX (WY) MIN (WY)	200.9 3021 1985 0.000 1979	175.4 1495 2001 0.025 1989	260.7 1083 2001 0.22 1968	314.4 2015 1991 1.99 1971	298.9 1580 1992 3.84 2000	285.0 1353 2001 3.13 1971	230.7 1333 1969 2.30 1981	291.8 1046 1969 2.10 2002	268.5 1745 1968 0.43 1998	25.28 260 1979 0.013 1977	25.33 266 1995 0.000 1969	90.70 1551 1974 0.000 1969
SUMMAR'	Y STATIST	CICS	FOR	2001 CALEN	DAR YEAR	:	FOR 2002 WA'	TER YEA	2	WATER YEAR	RS 1968 -	2002
SUMMARY STATISTICS  ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS				141297.62 387.1 12800 0.50 0.61 280300 899 27 1.9	Jun 8		47320.51 129.6 5020 0.02 0.23 5480 17.84 93860 225 10 1.4	Dec 1 Sep 2 Sep 2 Dec 1 Dec 1	8 5 3 8 8	205.1 530 32.6 23000 0.00 0.00 33800 25.07 148600 413 8.9 0.08	Jan 10 0 Aug 31 0 Aug 31 Sep 14 7 Sep 14	1968 1968 1974

08065800 Bedias Creek near Madisonville, TX--Continued



#### 08066170 Kickapoo Creek near Onalaska, TX

LOCATION.--Lat 30°54′25", long 95°05′18", Polk County, Hydrologic Unit 12030202, on right bank 114 ft upstream from old bridge site, 1.2 mi downstream from Magnolia Creek, 6.2 mi upstream from Rocky Creek, 7.3 mi northeast of Onalaska, and 15.9 mi upstream from mouth.

DRAINAGE AREA. -- 57.0 mi<sup>2</sup>.

PERIOD OF RECORD.--Dec. 1965 to current year.

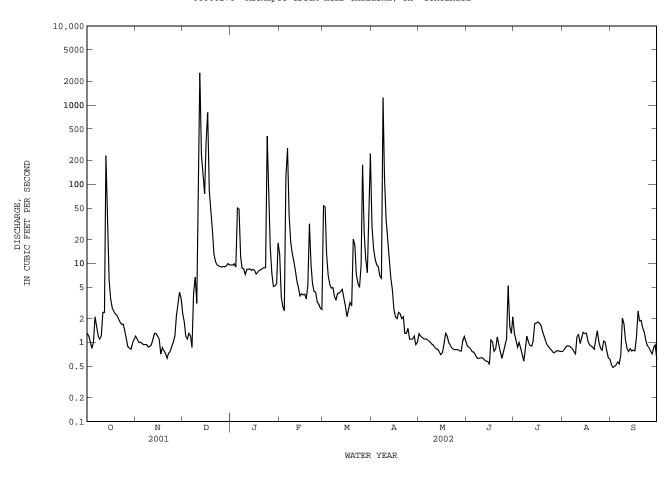
Water-quality records.--Chemical data: Dec. 1963 to Sept. 1974. Biochemical data: Oct. 1969 to Sept. 1974.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 139.85 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. Low flow is sustained by wastewater effluent that enters the creek upstream from this station.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES APR DAY OCT NOV DEC FEB MAR MAY JUN AUG SEP JAN JUL 1.2 2.3 9.5 29 0.89 0.77 0.53 1 1.3 13 54 1.3 1.3 2 1.2 1.8 9.5 3.8 52 15 1.2 0.87 0.82 0.48 1.1 3 1.0 1.0 1.2 9 9 2.8 13 11 1.2 0.84 0.87 0.88 0.49 2.5 9.6 0.84 1.0 9.0 7.1 1.1 0.52 4 1.1 0.77 1.00 0.90 5 1.0 0.97 1.3 50 125 5.4 9.1 0.75 0.85 0.90 0.56 1.1 0.94 1.2 6.9 0.70 0.70 0.87 0.53 6 2.1 284 4.9 1.1 48 1.6 0.94 0.86 12 40 4.9 6.5 0.64 0.84 0.69 1.1 8 1.2 0.94 4.2 6.7 8 7 18 3.8 1240 1 0 0.62 0.84 0.77 0.72 2.0 0.87 0.96 1.7 8.5 14 3.5 121 0.63 1.2 10 1.2 0.89 3.1 7.2 11 4.2 36 0.93 0.64 1.0 1.2 1.1 11 2.4 0.93 36 8.4 8.2 4.2 20 0.87 0.63 0 91 1.3 0.84 2550 5.9 0.77 12 2.4 1.1 4.4 11 0.83 0.90 0.96 6.7 4.7 1.3 4.7 1.0 13 230 235 8.5 5 0 0.82 0.58 1.1 0.83 3.9 0.57 1.3 126 8.1 0.76 0.78 14 29 15 6.1 1.2 76 8.3 4.1 2.9 2.6 0.70 0.52 1.7 0.80 16 3.5 1.1 335 8.1 4.0 2.1 2.1 0.74 1.1 1.8 1.3 0.78 2.7 0.71 807 7.3 2.6 2.0 0.95 1.0 1.7 1.0 1.2 18 2.5 0.86 83 7 7 3.5 5.2 3 2 2.4 1.3 0 77 1 6 0 93 2 5 2.3 8.1 2.9 1.4 19 0.79 44 0.83 0.90 1.9 20 2.2 0.73 26 8.3 32 20 2.0 1.0 1.2 1.2 0.87 1.9 0.63 13 8.6 9.6 17 0.93 0.94 0.82 21 2.0 1.5 22 1.8 0.73 11 8.8 5.6 7.3 1.3 0.85 0.76 0.93 1.3 1.7 9 6 23 0.76 8 8 4 4 5 6 1 3 0.82 0.63 0.88 1 4 1 0 0.88 9.2 4.3 4.9 1.5 0.81 0.82 404 9.6 25 1.4 1.0 9.1 93 3.2 1.1 0.81 0.90 0.78 0.85 0.86 1.2 9.0 3.0 175 0.81 0.74 0.80 0.78 26 1.1 27 0.88 2.2 9.1 7.5 2.7 25 1.1 0.78 5.2 0.75 1.0 0.72 3.0 9.0 1.2 1.6 28 0.85 5.1 2.6 11 0.78 0.78 1.0 0.86 29 0.82 4.3 9.3 5.2 7.6 0.94 1.0 1.3 0.78 0.78 0.92 30 0.98 3.6 9.9 5.5 ---51 1.0 1.2 2.1 0.77 0.64 0.61 18 243 1.0 31 1.1 9.5 ------0.76 0.61 38.17 1552.54 51.75 29 95 TOTAL 309.97 4449.46 834.0 625.4 760.5 30.43 32.34 29 63 30.36 0.966 9.999 26.90 1.014 1.043 0.956 MEAN 1.272 143.5 22.34 24.53 1.012 230 4.3 2550 404 284 243 1240 1.3 5.2 2.5 MAX MTN 0.82 0.63 0.86 5.1 2.5 2.1 0.94 0.70 0.52 0.58 0.61 0.48 AC-FT 615 1650 1510 60 76 8830 1240 3080 59 64 59 60 0.02 0.02 CFSM 0.18 2.52 0.47 0.39 0.43 0.91 0.02 0.02 0.02 0.02 IN. 0.20 0.02 2.90 0.54 0.41 0.50 1.01 0.02 0.02 0.02 0.02 0.02 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY) 39.13 56.32 MEAN 68.82 56.89 78.82 72.24 65.82 54.06 55.48 10.53 6.534 11.23 MAX 1891 416 177 320 288 236 270 1979 202 1982 365 100 51.4 107 1999 1992 1989 1973 (WY) 1995 1966 1974 1990 1973 1975 1.17 0.25 MIN 0.31 0.82 1.67 1.00 0.76 1.13 0.86 0.31 0.083 0.37 1988 1991 2000 2000 2000 1971 1971 1988 1971 1971 2000 1989 (WY) FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR SUMMARY STATISTICS WATER YEARS 1966 - 2002 24001.40 8722.75 ANNUAL TOTAL ANNUAL MEAN 65.76 23.90 47.77 HIGHEST ANNUAL MEAN 223 1995 LOWEST ANNUAL MEAN 1.53 2000 HIGHEST DAILY MEAN 38800 2550 Dec 12 2550 Dec 12 Oct 17 1994 0.48 Sep 2 0.53 Aug 31 0.02 Sep 27 1967 0.63 Nov 21 LOWEST DAILY MEAN 0.02 Sep 27 1967 ANNUAL SEVEN-DAY MINIMUM 0.74 Nov 17 MAXIMUM PEAK FLOW 5480 Dec 12 84600 41.85 Oct 17 1994 16.79 Dec 12 MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) 47610 17300 34610 ANNUAL RUNOFF (CFSM) 0.42 0.84 ANNUAL RUNOFF (INCHES) 15.66 11.39 5.69 10 PERCENT EXCEEDS 75 59 15 3.3 50 PERCENT EXCEEDS 4.1 1.3 90 PERCENT EXCEEDS 1.2 0.76 0.50

# 08066170 Kickapoo Creek near Onalaska, TX--Continued



### 08066190 Livingston Reservoir near Goodrich, TX

LOCATION.--Lat 30°38′00", long 95°00′36", Polk-San Jacinto County line, Hydrologic Unit 12030202, at left end of gated spillway at Livingston Dam on Trinity River, 4.4 mi northwest of Goodrich, 7.0 mi southwest of Livingston, 11.7 mi upstream from Long King Creek, and at mile 129.2.

DRAINAGE AREA. -- 16,583 mi<sup>2</sup>.

#### WATER-CONTENT RECORDS

PERIOD OF RECORD. -- Sept. 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Trinity River Authority). Prior to Feb. 26, 1969, temporary nonrecording gages at site about 200 ft upstream and at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by an earthfill dam 14,400 ft long. The dam was completed Sept. 29, 1968, and deliberate impoundment began June 26, 1969. The reservoir is operated for industrial water supply in the Houston metropolitan area. The spillway has twelve 40 x 35 ft tainter gates located near the left end of dam. Low-flow releases may be made through multi-gated inlet tower. There are five gated openings at various elevations located in the tower, and all discharge into a 10-foot-diameter concrete conduit through the dam. Flow is affected at times by discharge from the flood-detention pools of 255 floodwater-retarding structures. These structures control runoff from 617 mi<sup>2</sup> in the Richland, Chambers, Tehuacana, and Bedias Creeks drainage basins. Conservation pool storage is 1,750,000 agreeft. pool storage is 1,750,000 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam	145.0
Design flood	135.0
Top of tainter gates	134.0
Top of conservation pool	131.1
Crest of spillway (sill of tainter gates)	99.0
Lowest gated outlet (invert)	58.0

COOPERATION. -- The capacity table, furnished by the Trinity River Authority, is based on a survey by the Bureau of Reclamation dated Dec. 1991.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,081,000 acre-ft, Oct. 17, 1994, elevation, 134.39 ft; minimum since conservation pool capacity was reached on Nov. 2, 1971, 1,345,000 acre-ft, Oct. 25, 1988, elevation, 125.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,861,000 acre-ft, Dec. 26, 29, elevation, 132.39 ft; minimum contents, 1,717,000 acre-ft, May 6, elevation, 130.70 ft.

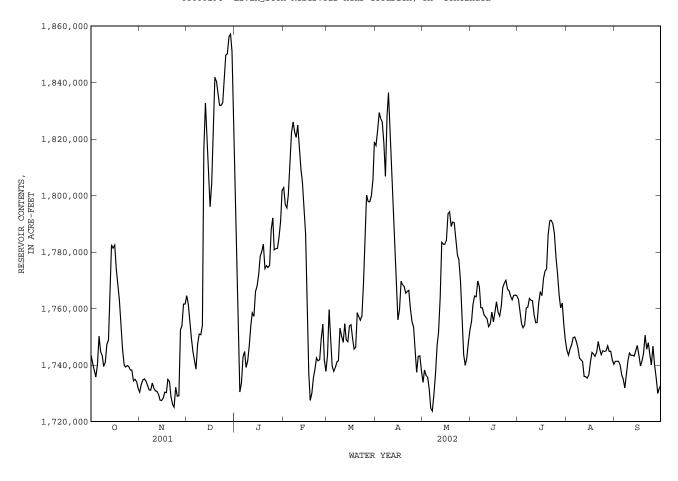
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1743000	1730000	1765000	1799000	1803000	1744000	1818000	1734000	1755000	1763000	1745000	1741000
2	1740000	1733000	1761000	1771000	1797000	1760000	1823000	1738000	1761000	1759000	1743000	1741000
3	1738000	1735000	1755000	1750000	1796000	1751000	1829000	1736000	1764000	1755000	1746000	1741000
4	1736000	1735000	1750000	1730000	1800000	1740000	1827000	1736000	1764000	1753000	1747000	1740000
5	1740000	1734000	1745000	1734000	1810000	1738000	1826000	1731000	1770000	1754000	1750000	1736000
6	1750000	1733000	1741000	1743000	1822000	1739000	1819000	1725000	1768000	1760000	1750000	1735000
7	1745000	1731000	1738000	1745000	1826000	1741000	1807000	1724000	1760000	1761000	1748000	1732000
8	1743000	1731000	1747000	1739000	1822000	1741000	1828000	1730000	1760000	1764000	1746000	1737000
9	1739000	1734000	1751000	1741000	1821000	1753000	1836000	1737000	1758000	1763000	1742000	1742000
10	1741000	1732000	1751000	1747000	1825000	1750000	1823000	1747000	1757000	1763000	1742000	1744000
11	1747000	1731000	1754000	1754000	1816000	1748000	1810000	1752000		1758000	1741000	1743000
12	1749000	1731000	1816000	1759000	1809000	1755000	1797000	1764000		1755000	1736000	1743000
13	1766000	1730000	1833000	1757000	1805000	1749000	1780000	1783000		e1755000	1736000	1743000
14	1783000	1728000	1820000	1766000	1796000	1748000	1766000	1783000		e1762000	1735000	1745000
15	1781000	1727000	e1807000	1768000	1786000	1754000	1756000	1783000		1766000	1736000	1747000
16	1782000	1728000	e1796000	1772000	1765000	1754000	1760000	1784000	1759000	1765000	1741000	1744000
17	1774000	1730000	1804000	1778000	1737000	1750000	1770000	1793000	1762000	1771000	1744000	1740000
18	1769000	1730000	1819000	1780000	1727000	1746000	1768000	1794000	1759000	1773000	1744000	1742000
19	1763000	1735000	1842000	1783000	1730000	1746000	1768000	1789000	1757000	1774000	1743000	1744000
20	1754000	1734000	1840000	1774000	1736000	1759000	1765000	1791000	1761000	1786000	1744000	1751000
21 22 23 24 25	1746000 1740000 1739000 1740000 1739000	1729000 1726000 1725000 1732000 1729000	1836000 1832000 1832000 1833000 1841000	1775000 1775000 1775000 1788000 1792000	1739000 1743000 1741000 1742000 1750000	1757000 1756000 1757000 1769000 1789000	1766000 1766000 1760000 1755000 1753000	1790000 1785000 1779000 1777000	1767000 1769000 1770000 1767000 1766000	1791000 1791000 1790000 1787000 1778000	1748000 1745000 1744000 1745000 1745000	1746000 1748000 1743000 1740000 1747000
26 27 28 29 30 31	1738000 1738000 1734000 1735000 1734000 1732000	1729000 1752000 1754000 1762000 1762000	1850000 1850000 1856000 1857000 1851000 1832000	1781000 1781000 1781000 1785000 1791000 1802000	1754000 1742000 1738000 	1800000 1798000 1798000 1800000 1806000 1819000	1745000 1737000 1743000 1743000 1738000	1755000 1744000 1740000 1742000 1748000 1752000	1764000 1763000 1765000 1765000 1765000	1772000 1765000 1760000 1762000 1754000 1749000	1745000 1747000 1745000 1745000 1742000 1740000	1740000 1735000 1730000 1732000 1733000
MEAN	1748000	1734000	1803000	1768000	1778000	1762000	1783000	1759000	1762000	1766000	1744000	1741000
MAX	1783000	1762000	1857000	1802000	1826000	1819000	1836000	1794000	1770000	1791000	1750000	1751000
MIN	1732000	1725000	1738000	1730000	1727000	1738000	1737000	1724000	1753000	1749000	1735000	1730000
(+)	130.87	131.23	132.06	131.71	130.95	131.91	130.95	131.04	131.27	131.08	130.98	130.89
(@)	-15000	+30000	+70000	-30000	-64000	+81000	-81000	+8000	+19000	-16000	-9000	-7000

MAX 1906000 MIN 1706000 (@) -4000 MAX 1857000 MIN 1724000 (@) -14000 CAT. YR 2001 WTR YR 2002

- e Estimated
- (+) Elevation, in feet, at end of month.
- (@) Change in contents, in acre-feet.

# 08066190 Livingston Reservoir near Goodrich, TX--Continued



### 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY RECORDS

PERIOD OF RECORD.--CHEMICAL DATA: Oct. 1969 to current year. BIOCHEMICAL DATA: Oct. 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

303807095011101 -- Livingston Res Site AC

							_						
Date	Time	RESER- VOIR STORAGE (AC-FT) (00054)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
MAR 12 12 12 12 12 12 12 22 22 22 22 22 22	1300 1302 1304 1306 1308 1310 1312 1314 1305 1307 1309 1311 1313 1315 1317	1760000       1750000   	1.00 10.0 20.0 30.0 40.0 50.0 60.0 73.0 1.00 10.0 20.0 30.0 40.0 50.0	320 310 315 315 310 325 330 335 325 330 330 330 330 330 330 335	8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.7 7.8 7.5 7.5 7.5	12.0 12.0 11.5 11.5 11.5 11.5 11.5 29.0 28.5 28.0 28.0 28.0 28.0 28.0	760 760 760 760 760 760 760 765 765 765 765 765 765	10.5 10.4 10.3 10.3 10.3 10.4 10.4 10.3 6.7 3.5 2.3 2.3 2.3	98 97 95 95 96 96 95 87 45 29 29	110    110 100  	14    19  	36.4    36.7 34.0   	3.67    3.70 4.06  
22	1317		68.0	345	7.2	27.5	765 765	.6	8	130		43.4	4.42
Date	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	30380 POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
MAR 12	19.0	.8	27	4.73	92	33.6	21.3	.3	7.0	186		<.008	1.00
12	19.0	. 0		4.73						100			
12													
12													
12												<.008	1.00
12 12													
12 AUG	19.1	.8	 27	4.73	 88	33.6	21.5	.3	7.0	184		<.008	1.00
12 AUG 22	19.1 23.1	.8	27 32	4.73 4.82	88 133	33.6 15.4	21.5 12.0	.3	7.0 2.5	184 176		<.008	1.00
12 AUG 22 22	19.1 23.1 	.8 1 	27 32 	4.73 4.82	88 133 	33.6 15.4 	21.5 12.0 	.3	7.0 2.5 	184 176 	 	<.008 <.008 	1.00
12 AUG 22 22 22	19.1 23.1 	.8 1  	27 32  	4.73 4.82 	88 133  	33.6 15.4 	21.5 12.0 	.3	7.0 2.5 	184 176 	  	<.008 <.008 	1.00 <.05 
12 AUG 22 22 22	19.1 23.1 	.8 1 	27 32 	4.73 4.82	88 133 	33.6 15.4 	21.5 12.0 	.3	7.0 2.5 	184 176 	   	<.008 <.008  	1.00 <.05  
12 AUG 22 22 22	19.1 23.1  	.8 1  	27 32  	4.73 4.82  	88 133  	33.6 15.4  	21.5 12.0  	.3	7.0 2.5  	184 176  	  	<.008 <.008 	1.00 <.05 
12 AUG 22 22 22 22	19.1 23.1   	.8 1   	27 32   	4.73 4.82   	88 133   	33.6 15.4   	21.5 12.0   	.3   	7.0 2.5   	184 176   	    .14	<.008 <.008009	1.00 <.05    .15
12 AUG 22 22 22 22 22 22	19.1 23.1   	.8 1    	27 32    	4.73 4.82    	88 133    	33.6 15.4   	21.5 12.0    	.3	7.0 2.5   	184 176    	    .14	<.008 <.008009 <.008	1.00 <.0515 E.03

# 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date  MAR 12 12 12 12 12	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)  <.04 <.04 <.04	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
12								
12 AUG	<.04		.40	.10	.09	. 267		
22 22	<.04		.33	E.05	.03	.104	<10	<2.0
22								
22 22	.05	.32	.38	.07	.06	.175	 <10	13.9
22 22	.30	.36	.65 	.14	.13	.399	15 	336
22	3.77	.37	4.1	1.86	1.66	5.08	733	1410
		303821095	005001	Livingst	on Res Si	te AL		
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR	1400	1 00	215	0 1	12.0	760	10 E	0.0
12 12 12 12 12 AUG	1400 1402 1404 1406 1408 1410	1.00 10.0 20.0 30.0 40.0 47.0	315 315 315 315 315 315	8.1 8.1 8.0 8.0 8.0	12.0 12.0 12.0 12.0 11.5	760 760 760 760 760 760	10.5 10.5 10.4 10.4 10.6	98 98 97 97 98 98
22 22 22 22 22 22	1439 1441 1443 1445 1447 1449	1.00 10.0 20.0 30.0 40.0 49.0	325 330 330 330 330 335	8.7 7.7 7.5 7.5 7.5 7.5	29.5 30.0  28.5 28.5 28.5	759 759 759 759 759 759	7.3 3.4 29.0 2.2 2.1 1.9	96 45  29 27 25
		303935095	055401	Livingst	on Res Si	te BC		
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR 12 12 12 12 12 12 12	1215 1217 1219 1221 1223 1225 1227	1.00 10.0 20.0 30.0 40.0 50.0	320 320 320 320 320 320 320	8.0 8.0 8.0 8.0 8.0 8.0	12.0 12.0 12.0 12.0 12.0 12.0 12.0	760 760 760 760 760 760 760	10.5 10.5 10.5 10.5 10.5 10.5	98 98 98 98 98 98
AUG 22 22 22 22 22	1203 1205 1207 1209 1211 1213	1.00 10.0 20.0 30.0 40.0 47.0	330 335 335 335 340 345	8.6 8.2 8.3 8.3 7.9 7.4	30.0 29.0 29.0 29.0 29.0 29.0	765 765 765 765 765 765	6.6 5.0 5.0 4.9 3.6	87 65 65 64 47 5

### 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

304144095073001 -- Livingston Res Site CC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR								
12	1148	1.00	320	8.1	12.0	760	10.5	98
12	1150	10.0	320	8.1	12.0	760	10.5	98
12	1152	20.0	320	8.1	12.0	760	10.5	98
12	1154	30.0	325	8.1	12.0	760	10.5	98
12	1156	40.0	325	8.1	12.0	760	10.5	98
12	1158	52.0	320	8.1	12.0	760	10.6	99
AUG								
22	1127	1.00	330	8.7	30.0	765	6.4	84
22	1129	10.0	335	8.4	29.5	765	4.6	60
22	1131	20.0	335	8.2	29.0	765	4.4	57
22	1133	30.0	340	8.0	29.0	765	3.5	45
22	1135	40.0	340	7.6	29.0	765	2.0	26
22	1137	46.0	345	7.5	29.0	765	.7	9

# 304521095075501 -- Livingston Res Site DC

			SPE- CIFIC	PH WATER WHOLE		BARO- METRIC PRES-		OXYGEN, DIS- SOLVED	NITRO- GEN, NITRATE	NITRO- GEN, NITRITE	NITRO- GEN, NO2+NO3	NITRO- GEN, AMMONIA	NITRO- GEN, ORGANIC
		SAM-	CON-	FIELD	TEMPER-	SURE	OXYGEN,	(PER-	DIS-	DIS-	DIS-	DIS-	DIS-
		PLING	DUCT-	(STAND-	ATURE	(MM	DIS-	CENT	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
Date	Time	DEPTH	ANCE	ARD	WATER	OF	SOLVED	SATUR-	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
		(FEET)	(US/CM)	UNITS)	(DEG C)	HG)	(MG/L)	ATION)	AS N)				
		(00003)	(00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(00618)	(00613)	(00631)	(00608)	(00607)
MAR													
12	1105	1.00	320	8.2	12.5	760	10.4	98		<.008	1.02	< .04	
12	1107	10.0	320	8.2	12.5	760	10.4	98					
12	1109	20.0	320	8.1	12.5	760	10.4	98					
12	1111	30.0	325	8.1	12.5	760	10.4	98					
12	1113	40.0	330	8.0	12.0	760	10.5	98					
12	1115	53.0	330	8.0	12.0	760	10.6	99		<.008	1.01	<.04	
AUG	1113	33.0	330	0.0	12.0	700	10.0	99		<.000	1.01	<.04	
22	1015	1.00	330	8.7	30.0	765	6.7	88		<.008	<.05	<.04	
22	1019	10.0	330	8.7	30.0	765	6.3	83					
22	1023	20.0	335	8.6	29.5	765	5.6	73					
22	1029	30.0	335	8.5	29.5	765	5.2	68		<.008	<.05	< .04	
22	1032	40.0	340	8.3	29.5	765	4.1	54					
22	1036	49.0	355	7.6	29.5	765	1.1	14	.15	.029	.18	.07	.38

### 304521095075501 -- Livingston Res Site DC

Date	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	(MG/L AS P)		IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR						
12	.40	.07	.08	.239	E8	E1.6n
12						
12						
12						
12						
12	.39	.09	.08	.242	E6	E.9n
AUG						
22	.30	E.03	.02	.074	<10	E1.3
22						
22						
22	.34	E.04	.04	.110	<10	<2.0
22						
22	. 45	.10	. 09	. 285	<10	19.8

### 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

304453095064901 -- Livingston Res Site DL

				PH		BARO-		OXYGEN,
			SPE-	WATER		METRIC		DIS-
			CIFIC	WHOLE		PRES-		SOLVED
		SAM-	CON-	FIELD	TEMPER-	SURE	OXYGEN,	(PER-
		PLING	DUCT-	(STAND-	ATURE	(MM	DIS-	CENT
Date	Time	DEPTH	ANCE	ARD	WATER	OF	SOLVED	SATUR-
		(FEET)	(US/CM)	UNITS)	(DEG C)	HG)	(MG/L)	ATION)
		(00003)	(00095)	(00400)	(00010)	(00025)	(00300)	(00301)
MAR								
12	1034	1.00	315	8.1	12.5	760	10.5	99
12	1036	10.0	320	8.1	12.5	760	10.5	99
12	1038	18.0	325	8.0	12.0	760	10.7	100
AUG								
22	0948	1.00	330	8.8	30.0	765	6.3	83
22	0950	10.0	330	8.7	30.0	765	5.9	78
22	0953	18.0	340	8.0	29.5	765	3.4	44

# 304659095052001 -- Livingston Res Site EC

				PH		BARO-		OXYGEN,	NITRO-	NITRO-	NITRO-	NITRO-	NITRO-
			SPE-	WATER		METRIC		DIS-	GEN,	GEN,	GEN,	GEN,	GEN,
			CIFIC	WHOLE		PRES-		SOLVED	NITRATE	NITRITE	NO2+NO3	AMMONIA	ORGANIC
		SAM-	CON-	FIELD	TEMPER-	SURE	OXYGEN,	(PER-	DIS-	DIS-	DIS-	DIS-	DIS-
		PLING	DUCT-	(STAND-	ATURE	MM)	DIS-	CENT	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
Date	Time	DEPTH	ANCE	ARD	WATER	OF	SOLVED	SATUR-	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
		(FEET)	(US/CM)	UNITS)	(DEG C)	HG)	(MG/L)	ATION)	AS N)				
		(00003)	(00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(00618)	(00613)	(00631)	(00608)	(00607)
MAR													
12	1000	1.00	310	8.1	12.5	760	10.5	99		<.008	1.01	< .04	
12	1002	10.0	310	8.1	12.5	760	10.5	99					
12	1004	27.0	320	8.0	12.5	760	10.5	99					
12	1006	27.0	320	8.0	12.5	760	10.6	100		<.008	1.00	<.04	
AUG													
22	0911	1.00	335	8.8	30.0	765	6.2	82		<.008	<.05	<.04	
22	0918	10.0	335	8.8	30.0	765	5.8	77					
22	0920	20.0	340	8.3	29.5	765	4.0	52					
22	0928	25.0	345	7.7	29.0	765	2.2	29	. 08	.016	.10	.06	. 35

# 304659095052001 -- Livingston Res Site EC

Date	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR						
12	.45	.08	.08	.233	E6	E.9n
12						
12						
12	.43	.07	.07	.218	E8	38.1
AUG						
22	.35	E.06	.04	.129	<10	<2.0
22						
22						
22	.41	.08	.07	.227	<10	35.7

### 304843095104001 -- Livingston Res Site FC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR								
12	1530	1.00	350	8.2	13.0	760	10.3	98
12	1532	10.0	350	8.2	13.0	760	10.3	98
12	1534	20.0	350	8.2	13.0	760	10.3	98
12	1536	30.0	350	8.3	13.0	760	10.3	98
12	1538	40.0	350	8.2	13.0	760	10.3	98
12	1540	50.0	350	8.2	13.0	760	10.3	98
AUG								
22	1540	1.00	360	8.7	30.0	759	5.1	68
22	1542	10.0	360	8.4	30.0	759	2.8	37
22	1544	20.0	370	7.8	30.0	759	1.6	21
22	1546	30.0	370	7.8	30.0	759	1.0	13
22	1548	40.0	375	7.6	30.0	759	. 4	5
22	1550	48.0	375	7.7	30.0	759	.5	7

### 08066190 Livingston Reservoir near Goodrich, TX--Continued

# WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305411095144901 -- Livingston Res Site GC

				30541	.109514490	I L1V1	ngston ke	s Site GC					
Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR 13 13 13 13 AUG	1100 1102 1104 1106 1108	1.00 10.0 20.0 30.0 38.0	400 385 410 410 425	8.2 8.2 8.1 8.1	14.0 14.0 14.0 13.5	760 760 760 760 760	9.9 9.8 9.9 10.0 10.2	96 95 96 96 98	130    140	33    26	44.7    45.2	5.40    5.40	29.3   30.5
23 23 23 23	0925 0927 0929 0931 0933	1.00 10.0 20.0 30.0 32.0	420 415 425 410 405	9.0 8.7 8.6 8.6 8.5	30.5 30.0 30.0 30.0 30.0	765 765 765 765 765	7.9 5.2 4.7 4.5 4.4	105 69 62 59 58	130    120	34    26	44.5    40.1	4.64    4.47	36.8    33.8
				30541	109514490	1 Livi	ngston Re	s Site GC					
Date	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAR 13 13	1	31	5.27	100	56.0	36.2	.3	7.9	252	1.50	.014	1.51	<.04
13										1.49	.010	1.50	<.04
13 13	1	32	4.91	109	56.0	35.7	.3	8.1	258	1.52	.015	1.54	<.04
AUG 23 23 23 23	1  	37  	5.85  	96  	49.1  	38.7  	.5  	6.4  	247  	.43 .47 .88	.055 .049 .081	.49 .52 .96	<.04 <.04 E.04
23	1	37	5.62	92	46.5	34.4	.5	6.7	230	.48	.050	.53	.06
				30541	.109514490	1 Livi	ngston Re	s Site GC					
		Da	te	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)			
		MAR											
		1	3 3		.45	.10	.11	.334					
			3		.41	.10	.11	.328	E7	E.9n			
		1	3		.44	.12	.11	.340					
		2 2	3 3	 	.43 .42 .47	.14 .16 .17	.12 .14 .15	.380 .423 .475	<10 <10 <10	E1.9b E.9 E1.7			
			3	.40	.46	.17	.14	.432	<10	19.6			

# 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305447095161401 -- Livingston Res Site HC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
MAR													
13	1150	1.00	390	8.3	14.5	760	10.6	104	.89	.009	.90	<.04	
13	1152	10.0	390	8.3	14.5	760	10.6	104					
13	1154	20.0	395	8.3	14.5	760	10.6	104					
13	1156	30.0	415	8.2	14.0	760	10.1	98					
13	1158	38.0	420	8.2	14.0	760	10.0	97	1.17	.011	1.18	< .04	
AUG													
23	1008	1.00	405	8.8	30.0	765	6.3	83	1.10	.122	1.22	< .04	
23	1010	10.0	405	8.0	29.5	765	2.9	38					
23	1012	20.0	405	7.9	29.5	765	2.7	35					
23	1014	30.0	405	7.8	29.5	765	2.2	29	.24	.110	.35	.22	. 44

# 305447095161401 -- Livingston Res Site HC

Date	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAR						
13	.39	.07	.05	.153	20	E1.6n
13						
13						
13						
13	.35	.09	.07	.230	11	E3.1b
AUG						
23	.48	.15	.14	.432	<10	E1.6
23						
23						
23	.66	.12	.12	.353	<10	42.4

# 305135095193601 -- Livingston Res Site IC

				PH		BARO-		OXYGEN,
			SPE-	WATER	METRIC			DIS-
			CIFIC	WHOLE		PRES-		SOLVED
		SAM-	CON-	FIELD	TEMPER-	SURE	OXYGEN,	(PER-
		PLING	DUCT-	(STAND-	ATURE	(MM	DIS-	CENT
Date	Time	DEPTH	ANCE	ARD	WATER	OF	SOLVED	SATUR-
		(FEET)	(US/CM)	UNITS)	(DEG C)	HG)	(MG/L)	ATION)
		(00003)	(00095)	(00400)	(00010)	(00025)	(00300)	(00301)
MAR								
13	0850	1.00	210	8.1	13.5	760	10.4	100
13	0852	10.0	425	8.0	13.0	760	10.4	99
13	0854	20.0	535	7.9	13.0	760	10.3	98
13	0856	30.0	555	7.7	12.5	760	9.9	93
13	0858	42.0	555	7.7	12.5	760	9.9	93
AUG								
23	0842	1.00	665	8.2	30.0	765	5.9	78
23	0844	10.0	665	8.2	30.0	765	5.6	74
23	0846	20.0	675	7.8	30.0	765	4.0	53
23	0848	30.0	680	7.8	30.0	765	3.8	50
23	0850	35.0	680	7.8	30.0	765	3.8	50

### 08066190 Livingston Reservoir near Goodrich, TX--Continued

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305135095235401 -- Livingston Res Site JC

Date	Time	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR  13  13  13  13  13  23  23  23  23  23	0930 0932 0934 0936 0938 0940 0756 0758 0800 0802	1.00 10.0 20.0 30.0 40.0 47.0 1.00 10.0 20.0 30.0 35.0	520 535 565 570 560 565 645 645 665 670 670	8.3 8.3 8.2 8.0 8.0 8.0 8.7 7.8 7.8	13.5 13.5 13.0 12.5 12.5 12.5 30.0 30.0 30.0 30.0 30.0	760 760 760 760 760 760 765 765 765 765	12.2 12.2 12.0 11.6 11.5 11.2 8.5 5.7 4.3 3.8 3.7	118 118 114 109 108 106 112 75 57 50 49	170   170 180   180	67   73 62   63	56.2   57.8 61.8   62.6	6.62    6.98 6.14   6.25	42.1   44.2 67.5   68.1
				30513	509523540	1 Livi	ngston Re	s Site JC					
Date	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAR 13	1	34	5.76	101	73.4	50.2	.5	7.3	317	3.04	.012	3.05	<.04
13 13 13 13 13 AUG 23 23 23 23 23	1 2	  35 44   43	5.88 8.36  -8.47	  100 118   119	77.5 78.8  -79.3	  52.9 67.0   66.5	  .5 1.1   1.1	8.3 8.1   8.3	330 398   401	  3.46 5.88  6.20 6.31 5.94	E.006   .011 .131  .157 .165 .198	3.40  3.47 6.01  6.36 6.47 6.14	<.04  E.02 .04  E.02 E.02 .05

305135095235401 -- Livingston Res Site JC

Date	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
	,	, ,	, ,	, ,	, ,		, ,
MAR							
13		.55	.29	.28	.859		
13							
13		.49	.33	.31	.960	<10	<2.0
13							
13							
13		.48	.32	.32	.966		
AUG							
23	.60	.64	.63	.62	1.90	<10	E1.5n
23							
23		.57	.67	.66	2.01	<10	E1.9
23		.61	.69	.64	1.97	<10	E2.8
23	.58	.64	.67	.66	2.01	<10	28.1

Remark codes used in this report: < -- Less than E -- Estimated value

Value qualifier codes used in this report: b -- Value was extrapolated below n -- Below the NDV

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## 08066200 Long King Creek at Livingston, TX

LOCATION.--Lat 30°42′58", long 94°57′31", Polk County, Hydrologic Unit 12030202, on right bank at upstream side of bridge on U.S. Highway 190, 2.0 mi west of Livingston, 2.0 mi upstream from Choates Creek, and 14.8 mi upstream from mouth.

DRAINAGE AREA. -- 141 mi<sup>2</sup>.

PERIOD OF RECORD.--Jan. 1963 to current year.

Water-quality records.--Chemical data: Jan. 1963 to Sept. 1972. Specific conductance: Jan. 1963 to Sept. 1972. Water temperature: Jan. 1963 to Sept. 1972.

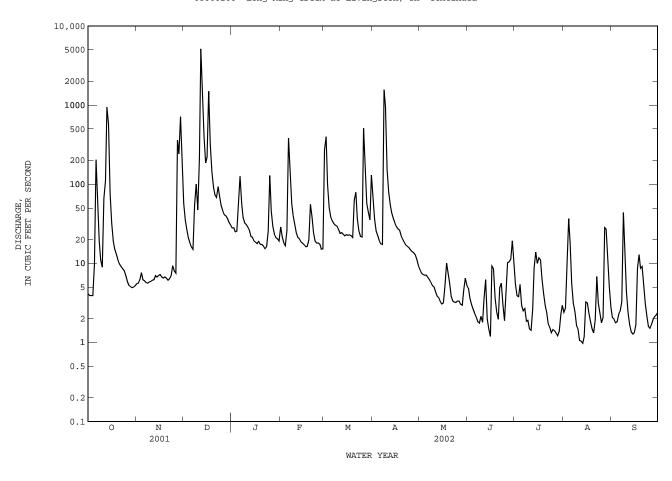
GAGE.--Water-stage recorder. Datum of gage is 100.12 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1870, about 41 ft in May 1929.

		DISCHAF	RGE, CUBIO	C FEET PER		WATER YE MEAN VA	CAR OCTOBER	2001 TO	SEPTEMB	ER 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.1 3.9 3.9 3.9 9.6	5.5 5.6 6.2 7.6 6.2	57 35 27 21 18	28 28 25 25 51	29 22 18 17 26	272 397 98 51 39	68 36 25 23 19	8.3 7.6 7.2 7.1	4.8 3.6 3.0 2.6 2.3	5.5 3.9 3.8 5.4 2.9	2.4 2.7 9.4 37 18	2.1 2.0 1.8 1.8 2.3
6 7 8 9 10	203 49 19 11 8.9	6.0 5.7 5.6 5.8 5.9	16 15 55 100 47	126 58 38 32 31	381 126 57 40 31	34 32 30 29 27	18 17 1570 956 154	6.7 6.2 5.7 5.2 5.0	2.1 1.8 1.8 2.1 1.8	2.5 2.7 1.8 1.9 1.5	5.5 3.1 2.5 1.6 1.5	2.5 3.3 44 16 4.3
11 12 13 14 15	66 110 942 577 76	6.1 6.2 7.0 6.7 7.0	208 5140 1320 399 185	29 26 22 21 19	24 21 20 19 18	24 24 23 22 23	79 55 43 37 32	4.4 3.8 3.7 3.3	3.6 6.2 2.0 1.5 1.2	1.4 2.6 8.7 14 10	1.1 1.0 0.97 1.2 3.2	2.4 1.7 1.4 1.3
16 17 18 19 20	32 19 15 13	7.2 6.7 6.5 6.7 6.5	220 1490 316 146 92	18 18 19 17 17	17 16 16 20 56	23 23 22 21 63	29 27 26 22 20	3.1 5.3 10 7.3 5.6	9.3 8.5 3.7 2.4 2.0	12 11 6.4 4.2 3.0	3.1 2.3 1.8 1.5	1.7 8.6 13 8.7 9.1
21 22 23 24 25	9.8 9.1 8.6 8.1 7.0	6.1 6.4 6.9 9.3 8.0	74 68 93 68 54	16 15 16 25 129	39 25 19 18 18	79 36 25 22 21	18 17 16 16 15	3.8 3.3 3.2 3.2 3.3	4.9 5.6 3.0 1.9 4.6	2.4 1.7 1.5 1.3	1.9 6.8 3.2 2.3 1.8	5.2 3.1 2.1 1.6 1.5
26 27 28 29 30 31	5.9 5.3 5.1 4.9 5.0 5.2	7.5 360 241 710 189	46 41 40 37 33	46 29 23 21 20 19	17 15 15 	509 141 57 44 35 130	14 14 13 11 9.3	3.3 3.0 3.0 4.6 6.5 5.2	10 10 11 19 11	1.4 1.3 1.2 1.4 2.3 2.9	2.1 28 27 12 5.0 2.8	1.7 1.9 2.1 2.2 2.4
TOTAL MEAN MAX MIN AC-FT CFSM IN.	2251.3 72.62 942 3.9 4470 0.52 0.59	1670.9 55.70 710 5.5 3310 0.40 0.44	10492 338.5 5140 15 20810 2.40 2.77	1007 32.48 129 15 2000 0.23 0.27	1140 40.71 381 15 2260 0.29 0.30	2376 76.65 509 21 4710 0.54 0.63	3399.3 113.3 1570 9.3 6740 0.80 0.90	158.1 5.100 10 3.0 314 0.04 0.04	147.3 4.910 19 1.2 292 0.03 0.04	124.1 4.003 14 1.2 246 0.03 0.03	194.07 6.260 37 0.97 385 0.04 0.05	153.1 5.103 44 1.3 304 0.04 0.04
STATIS	TICS OF M	ONTHLY MEA	AN DATA FO	OR WATER YI	EARS 1963	- 2002,	BY WATER	YEAR (WY)				
MEAN MAX (WY) MIN (WY)	68.20 1342 1995 0.18 1966	97.82 920 1999 0.92 1989	161.8 626 1995 2.83 1971	193.3 1026 1998 2.79 1971	172.9 629 1992 5.53 1971	160.2 640 1990 3.75 1971	134.2 844 1979 4.06 1971	127.9 662 1969 2.58 1963	144.7 869 1989 0.72 1971	33.26 493 1989 0.000 1971	16.44 191 1983 0.000 1971	29.77 288 1996 0.15 1967
SUMMAR	Y STATIST	CICS	FOR :	2001 CALENI	OAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEA	RS 1963 -	2002
LOWEST HIGHES LOWEST ANNUAL MAXIMU MAXIMU ANNUAL ANNUAL ANNUAL 10 PER 50 PER	MEAN T ANNUAL ANNUAL T DAILY ME DAILY ME SEVEN-DA M PEAK FI M PEAK ST	MEAN MEAN MAN MAN MAN MAN MAN MAN MAN MAN MAN M		63013.50 172.6 5140 0.76 1.0 125000 1.22 16.62 355 27 4.1			23113.17 63.32 5140 0.97 1.4 6880 16.19 45840 0.45 6.10 75 10	Dec 12 Aug 13 Jul 23 Dec 12 Dec 12		112.8 318 12.3 30100 0.0 50900 30.4 81730 0.8 10.8 155 13	Oct 17 0 Aug 5 0 Jun 28 Oct 17 9 Oct 17	1995 1970 1994 1965 1971 1994 1994

# 08066200 Long King Creek at Livingston, TX--Continued



## 08066250 Trinity River near Goodrich, TX

LOCATION.--Lat 30°34'19", long 94°56'55", Polk-San Jacinto County line, Hydrologic Unit 12030202, on left bank at downstream bridge on U.S. Highway 59, 0.2 mi downstream from Long King Creek, 3.0 mi southeast of Goodrich, 11.9 mile downstream from Livingston Dam, and at mile 117.3.

DRAINAGE AREA.--16,844 mi<sup>2</sup>.

PERIOD OF RECORD.--Dec. 1965 to current year.
Water-quality records.--Chemical data: Mar. 1966 to Sept. 1973. Specific conductance: Oct. 1969 to Sept. 1973. Water temperature: Oct. 1969 to Sept. 1973.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above NGVD of 1929. Satellite telemeter at station.

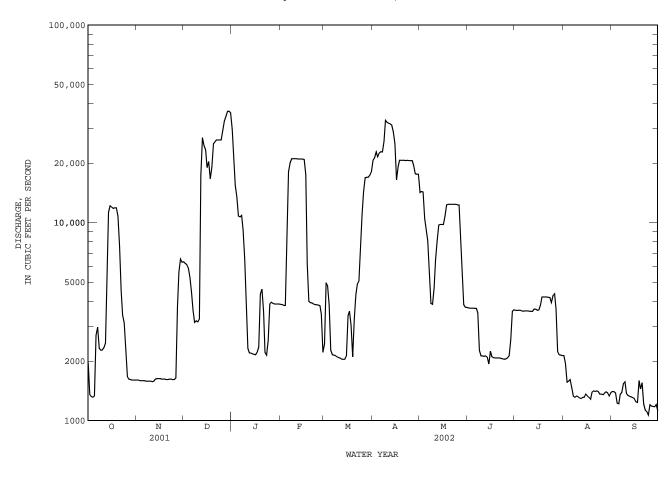
REMARKS.--Records good. Since installation of gage in Dec. 1965, at least 10% of contributing drainage area has been regulated. Livingston Reservoir (station 08066190) and twenty-one additional upstream reservoirs now regulate flow. Streamflow is affected at times by discharge from the flood-detention pools of 252 floodwater-retarding structures.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1929, 52.0 ft in May 1942, from information by Texas Department of Transportation and by local residents. DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DISCHARGE	FROM DCP,	CORIC PE		COND, WA Y MEAN V		OCTOBER 20	001 10 SE	PIEMBER ZUU	12	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1960	1600	6350	29800	3870	2440	20600	14200	3710	3610	2130	1400
2	1350	1600	6220	21300	3850	4970	21300	14400	3700	3600	1940	1400
3	1320	1590	6150	15500	3820	4810	22800	14300	3700	3610	1560	1380
4	1310	1590	5900	13500	3820	3850	21500	10500	3700	3610	1580	1220
5	1330	1590	5280	10800	e7000	2260	22500	9110	3690	3580	1610	1210
6	2700	1590	4430	10700	18100	2150	22900	8140	3690	3570	1470	1350
7	2960	1580	3620	10900	20100	2140	22800	5390 3910	3500	3580	1330	1390
8 9	2320 2270	1580 1580	3130 3190	9210 6610	21100 21100	2130 2100	25900 33000	3870	2260 2120	3580 3580	1310 1330	1540 1570
10	2270	1580	3150	3590	21100	2080	32200	4680	2120	3570	1320	1370
11	2330	1570	3260	2310	21100	2070	31800	6490	2110	3560	1300	1340
12	2460	1580	17300	2200	21000	2040	31600	8110	2120	3560	1290	1320
13	5770	1620	26900	2190	21000	2040	31200	9730	2090	3660	1310	1320
14	11300	1630	24500	2170	21000	2040	28800	9800	1930	3660	1310	1300
15	12200	1630	23300	2160	21000	2120	25100	9800	2240	3610	1360	1290
16	12000	1630	19000	2150	20900	3380	16500	9800	2100	3620	1330	1240
17 18	11800 11900	1620 1620	20400 16700	2210 2350	17500 6180	3570 3030	19200 20700	10800 12300	2080 2070	3840 4210	1310 1280	1230 1590
19	11900	1620	19100	4360	4010	2100	20700	12400	2070	4210	1390	1440
20	10800	1610	25100	4620	3940	3250	20700	12400	2070	4210	1410	1550
21	7630	1610	25600	3570	3930	4330	20700	12400	2070	4210	1400	1210
22	4520	1620	26200	2210	3880	4880	20600	12400	2060	4200	1410	1120
23	3410	1620	26200	2140	3850	5070	20700	12400	2050	4190	1400	1110
24	3120	1610	26200	2540	3850	7280	20600	12400	2040	3950	1360	1070
25	2260	1610	26200	3880	3830	11100	20600	12300	2050	4280	1360	1200
26	1670	1640	29200	3960	3820	14300	20600	12300	2070	4370	1350	1180
27	1620	3770	32700	3910	3450	16900	19500	8670	2120	3660	1380	1180
28	1610	5640	34500	3880	2210	17000	17700	5800	2560	2230	1400	1170
29	1600	6570	36600	3880		17000	17600	3850	3560	2150	1380	1200
30 31	1600 1600	6310	36700 36000	3880 3880		17400 18100	17600	3740 3730	3630	2140 2130	1330 1380	1120
TOTAL	142890	64010	579080	196360	310310	187930	688000	290120	77280	111540	44020	39010
MEAN	4609	2134	18680	6334	11080	6062	22930	9359	2576	3598	1420	1300
MAX	12200	6570	36700	29800	21100	18100	33000	14400	3710	4370	2130	1590
MIN AC-FT	1310 283400	1570 127000	3130 1149000	2140 389500	2210 615500	2040 372800	16500 1365000	3730 575500	1930 153300	2130 221200	1280 87310	1070 77380
										222200	0.010	,,,,,,
STATIS	TICS OF	MONTHLY M	EAN DATA F	OR WATER	YEARS 196	6 - 2002	, BY WATE	R YEAR (W	<i>(</i> )			
MEAN	3508	6568	9118	9569	10050	12720	11620	14350	12020	4436	2173	2143
MAX	25630	30260	30270	45550	38660	51410	30750	57850	32120	24310	6819	15230
(WY)	1974	1975	1992	1992	1992	2001	1977	1990	1973	1989	1982	1974
MIN	283	449	317	321	472	724	1262	1294	907	1043	355	455
(WY)	1973	1971	1971	1971	1971	1981	1971	1971	1972	1971	1972	1971
SUMMAR	Y STATIS	STICS	FOR	2001 CALE	NDAR YEAR		FOR 2002	WATER YEAR	3	WATER YEAR	RS 1966 -	2002
ANNUAL	TOTAL			5068440			2730550					
ANNUAL				13890			7481			8132		
	T ANNUAL									18310		1992
LOWEST	ANNUAL	MEAN								746		1971
HIGHES	T DAILY	MEAN		78700	Jun 10		36700	Dec 30		120000	Oct 18	
LOWEST	DATLY N	IEAN	M	685 1040	Aug 14		1070 1150	Sep 24	±	120000 191 240	Aug 6	1971
ANNUAL	M PEAK F	AT MINIMUI	Ivi	1040	Aug 21		36800	Sep 22	4 3_21	125000	Aug 16 Oct 18	
							20000	Dec 29 90 Dec 30	) )	42 000	7 Oct 18	
ANNITAT.	RUNOFF	(AC-FT)	1	0050000			5416000	20 Dec 30	,	5891000	000 10	・エノノユ
10 PER	CENT EXC	EEDS	-	35900			21000			23500		
50 PER	CENT EXC	CEEDS		6350			3610			2750		
90 PER	CENT EXC	CEEDS	1	1420			1350			776		

e Estimated

# 08066250 Trinity River near Goodrich, TX--Continued



## 08066300 Menard Creek near Rye, TX

 $\label{location.--Lat 30°28'53", long 94°46'47", Liberty County, Hydrologic Unit 12030202, on left bank 20 ft downstream from bridge on State Highway 146, 2.3 mi northwest of Rye, and about 6.0 mi upstream from mouth.$ 

DRAINAGE AREA. -- 152 mi<sup>2</sup>.

PERIOD OF RECORD.--Dec. 1965 to current year.
Water-quality records.--Chemical data: Aug. 1950 to Aug. 1994.

REVISED RECORD. -- WRD-TX-99-2: 1999 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.32 ft above NGVD of 1929. Sept. 1974 to Aug. 1976, wire-weight gage read twice daily. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in water year 1966, at least 10% of contributing drainage area has been regulated. No known diversions.

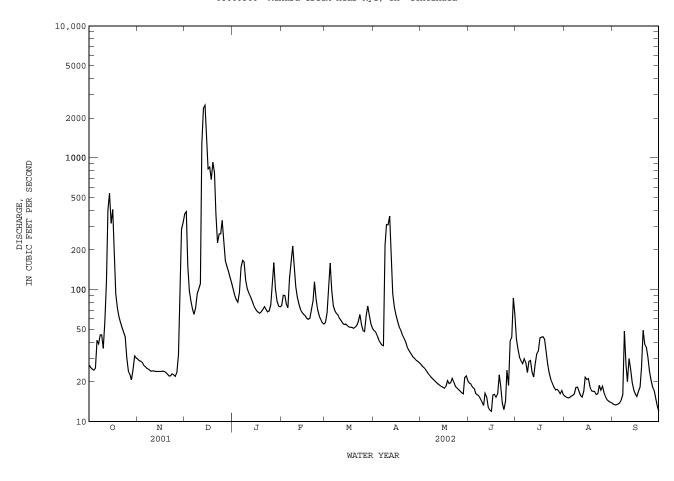
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1929 reached a stage of about 39.4 ft, from information by the Texas Department of Transportation. Flood in Sept. 1961 reached a stage of about 34.0 ft, from information by local resident. Flood of May 1929 may have been equalled or exceeded by other floods during the period 1929-65.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	D.	LSCHARGE	FROM DCP,	CUBIC FE		MEAN VA		OCIOBER 200	I IO SE	PIEMBER ZUC	12	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	27 26 25 24 25	30 29 29 28 27	375 389 153 98 82	101 90 84 80 96	76 91 90 78 73	57 67 100 159 98	49 48 45 42 40	27 e26 e26 e25 e24	19 19 18 18 16	42 35 31 29 27	e16 e15 e15 e15 e15	e14 e13 e13 e14 e14
6 7 8 9 10	41 39 45 45 36	26 25 25 24 24	71 65 73 93 102	147 167 162 118 101	122 161 214 152 106	75 69 66 64 60	38 38 216 312 311	e23 e22 e21 e21 e20	16 16 15 14 13	30 28 24 29 29	e16 16 18 18 17	e15 16 48 27 20
11 12 13 14 15	58 116 401 538 318	24 24 24 24 24	111 1280 2380 2500 1360	94 89 83 77 72	87 78 71 67 65	58 56 54 55 53	361 158 94 74 65	e20 e19 e19 18 18	16 15 13 12 12	24 22 27 32 34	e16 e15 17 22 21	30 25 20 17 16
16 17 18 19 20	405 181 93 73 62	24 24 24 24 23	825 851 684 930 767	69 67 66 68 71	63 61 59 61 70	52 52 52 51 52	58 52 50 46 43	18 18 20 19 20	16 16 15 16 23	43 44 44 42 33	21 18 17 17	e15 17 18 26 49
21 22 23 24 25	56 51 48 44 30	22 22 23 23 22	373 226 264 266 336	74 71 68 69 77	82 115 85 70 63	54 57 65 54 49	41 38 35 34 32	21 20 18 18 17	18 14 12 14 25	27 23 21 20 18	16 16 19 17 19	39 37 31 24 21
26 27 28 29 30 31	24 23 21 25 31 30	24 32 101 288 323	238 166 150 137 124 113	108 161 101 82 75 74	59 56 55  	48 63 75 64 55	31 30 29 29 28	17 17 16 22 22 22	19 41 43 86 66	17 18 17 16 17 16	16 e15 e15 e14 e14 e14	18 17 e15 e13 e12
TOTAL MEAN MAX MIN AC-FT	2961 95.52 538 21 5870	1386 46.20 323 22 2750	15582 502.6 2500 65 30910	2862 92.32 167 66 5680	2430 86.79 214 55 4820	1985 64.03 159 48 3940	2467 82.23 361 28 4890	632 20.39 27 16 1250	656 21.87 86 12 1300	859 27.71 44 16 1700	517 16.68 22 14 1030	654 21.80 49 12 1300
MEAN MAX (WY) MIN (WY)	77.23 1092 1995 3.42 1968	94.25 595 1999 3.55 1968	164.3 503 2002 8.05 1968	209.2 777 1974 14.6 1971	214.8 727 1992 14.0 1971	- 2002, 183.4 528 1997 13.5 1971	176.4 977 1979 9.77 1971	TYEAR (WY) 175.7 757 1983 20.4 2002	144.3 788 1986 8.72 1971	61.39 464 1989 4.52 1971	43.35 354 1983 5.47 1967	48.56 192 1983 4.43 1967
SUMMARY	STATIST:	ICS	FOR	2001 CALEI	NDAR YEAR	F	FOR 2002	WATER YEAR		WATER YEAR	RS 1966 -	- 2002
LOWEST HIGHEST LOWEST ANNUAL MAXIMUM MAXIMUM ANNUAL 10 PERC 50 PERC		EAN EAN AN Y MINIMUM OW AGE AC-FT) EDS EDS		49938 136.8 2500 13 13 99050 357 45 20	Dec 14 Aug 22 Aug 19		32991 90. 2500 12 14 4120 23. 65440 155 33 16	Dec 14 Jun 14 Jun 9 Dec 13 54 Dec 13		133.6 279 14.7 12000 2.6 2.9 14200 31.41 96760 282 48	Oct 18 Nov 1 Nov 1 Apr 5	1967 1967 1999

e Estimated

08066300 Menard Creek near Rye, TX--Continued



## 08066500 Trinity River at Romayor, TX

LOCATION.--Lat 30°25′30", long 94°51′02", Liberty County, Hydrologic Unit 12030202, near right bank at downstream side of bridge on State Highway 787, 1.9 mi south of Romayor, 1.9 mi downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 3.7 mi downstream from Big Creek, and at mile 94.3.

DRAINAGE AREA. -- 17,186 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1924 to current year. Monthly discharge only for some periods, published in WSP 1312.
Water-quality records.--Chemical data: Oct. 1941 to Nov. 1949, Feb. 1950 to Sept. 1951, Oct. 1953 to Sept. 1995. Biochemical data: Feb. 1968 to Sept. 1995. Pesticide data: Feb. 1968 to July 1981, Aug. 1983 to Sept. 1995. Sediment data: Mar. 1959 to Sept. 1995. Suspended sediment data: Oct. 1954 to Sept. 1955, Oct. 1968 to Sept. 1971. Specific conductance: Oct. 1941 to Sept. 1942, Jan. 1944 to Sept. 1951, Oct. 1953 to Sept. 1994. Water temperature: Oct. 1941 to Sept. 1950, Oct. 1953 to Sept. 1994.

REVISED RECORDS.--WSP 1392: 1932, 1935. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M, m).

GAGE.--Water-stage recorder. Datum of gage is 25.92 ft above NGVD of 1929. Prior to Oct. 1, 1943, nonrecording gage at datum 63.57 ft higher at railroad bridge 1.9 mi upstream. Oct. 1, 1943, to Dec. 31, 1988, water-stage recorder and nonrecording gage (Sept. 15, 1975, to June 16, 1977) at present site and at datum 10.00 ft higher than current datum. Satellite telemeter at station.

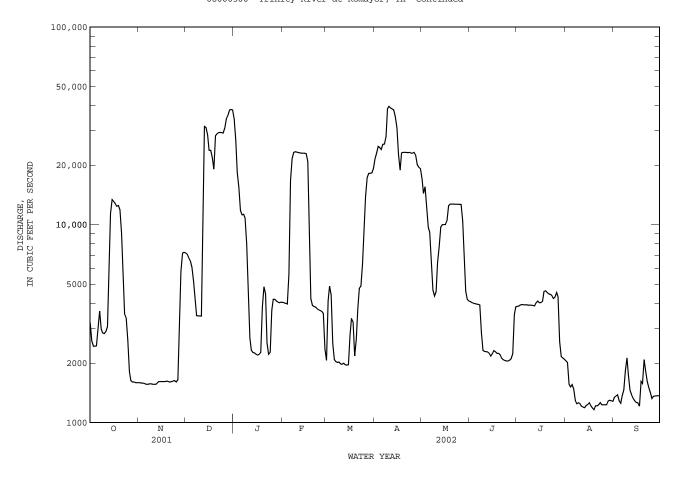
DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

REMARKS.--Records good. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. There are no known large diversions between Livingston Reservoir and this station.

		DISCHARGE	FROM DCP,	CORIC FI		COND, WA Y MEAN V		OCTOBER 20	UI TO SE	PTEMBER 200.	2	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3190	1590	7200	34200	4050	2060	21500	17100	4090	3870	2050	1340
2	2580	1590	7100	26600	4020	4120	23000	14400	4040	3880	2010	1360
3	2430	1580	6810	18400	4010	4890	24900	15600	4010	3930	1560	1380
4	2430	1580	6560	15500	3970	4420	24600	12200	3990	3950	1510	1290
5	2440	1570	6080	11800	5600	2510	24000	9690	3970	3940	1550	1250
6 7	3010 3660	1560 1560	5180 4230	11200 11300	16700 21600	2080 2030	25500 25600	9150 6760	3950 3920	3930 3940	1480 1290	1360 1460
8	2960	1570	3470	10800	23200	2010	27900	4680	2850	3920	1240	1830
9	2830	1570	3460	8010	23400	2020	38500	4360	2310	3920	1260	2120
10	2810	1560	3460	4490	23300	1980	39700	4580	2290	3920	1240	1730
11	2880	1560	3450	2680	23200	1970	39000	6440	2280	3900	1210	1450
12	3050	1560	15700	2320	23100	1990	38500	7720	2270	3890	1200	1380
13	5080	1590	31400	2260	23000	1960	38000	9720	2240	4030	1190	1320
14 15	11400 13400	1610 1610	31000 28400	2250 2210	23000 23000	1950 1960	35200 31000	10000 10000	2170 2230	4110 4040	1220 1230	1290 1260
		1010										
16 17	13100 12800	1610 1610	23800 23800	2190 2210	22900 20900	2770 3360	22600 18900	10000 10500	2310 2280	4030 4090	1260 1210	1260 1210
18	12400	1610	21900	2260	9470	3230	23100	12500	2240	4590	1180	1610
19	12500	1620	19100	3830	4230	2170	23200	12700	2240	4630	1160	1580
20	11900	1610	28100	4850	3900	2630	23200	12700	2200	4540	1220	2080
21	9040	1600	28800	4460	3860	3810	23200	12700	2110	4470	1210	1810
22	5680	1610	29200	2530	3840	4760	23200	12700	2070	4450	1230	1600
23 24	3540 3380	1620 1630	29300 29200	2210 2260	3770 3710	4890 6340	23200 e23000	12700 12700	2060 2050	4400 4230	1260 1230	1490 1420
25	2610	1600	29100	3700	3680	9600	23000	12700	2040	4300	1230	1320
26	1810	1640	30800	4200	3640	13900	23300	12700	2060	4540	1230	1360
27	1630	2710	34300	4200	3560	17300	22500	10500	2100	4320	1230	1360
28	1600	5790	35700	4110	2360	18200	20200	7080	2230	2560	1280	1360
29	1600	7160	38000	4060		18200	19500	4610	3520	2160	1290	1370
30	1590	7240	38300	4030		18300	19200	4190	3850	2120	1290	1360
31	1590		38100	4060		19200		4110		2090	1280	
TOTAL	160920	64320	641000	219180	334970	186610	788200	307490	81970	120690	41030	44010
MEAN	5191	2144	20680	7070	11960	6020	26270	9919	2732	3893	1324	1467
MAX	13400	7240	38300	34200	23400	19200	39700	17100	4090	4630	2050	2120
MIN	1590 319200	1560 127600	3450 1271000	2190 434700	2360 664400	1950	18900 1563000	4110 609900	2040 162600	2090 239400	1160 81380	1210 87290
										237400	01300	07230
STATIS	TICS OF I	MONTHLY M	EAN DATA F	OR WATER	YEARS 192	4 - 2002	2, BY WATE	ER YEAR (WY	)			
MEAN	3343	5540	8058	9536	10000	11840	11050	15150	11490	4456	1878	2092
MAX	25380	31160	43240	51740	44510	53570	65710	62000	45120	28480	10140	14850
(WY)	1974	1999	1941	1992	1992	2001	1945	1957	1957	1941	1957	1974
MIN (WY)	181 1957	274 1956	351 1971	347 1971	450 1971	528 1925	415 1925	1285 1937	455 1925	201 1956	128 1956	165 1956
	Y STATIS	TTCC		2001 CAL	ENDAR YEAR		EOD 2002	WATER YEAR		WATER YEARS	g 1924 _	2002
		1105			BINDAK TEAK			WAIER IEAR		WAIER IEAR	3 1724	2002
ANNUAL ANNUAL	TOTAL			5530770 15150			2990390 8193			7867		
	T ANNUAL	MEDN		13130			0193			20630		1992
LOWEST	ו .דבדדתתב י	ME DN										1971
HIGHES	T DAILY	MEAN	м	74600	Jun 11		39700	Apr 10		117000	Oct 19	
LOWEST	DAILY M	EAN		1210	Aug 14		1160	Aug 19		104	Aug 23	1956
			M	1450	Aug 10		39700 1160 1210 40500	Apr 10 Aug 19 Aug 13 Apr 9		106	Aug 20	1956
	M PEAK F						40500	Apr 9		122000	Oct 19	
MAXIMU	M PEAK S'	TAGE	-	0070000			30. 5931000	.u/ Dec 30		45.80	May 9	1942
ANNUAL	CENT EVO	(AC-FI)	1	20100			23200			225UU		
50 PER	CENT EXC	EEDS	1	7160			3900			2720		
90 PER	CENT EXC	EEDS		1600			1360			571		
				_000						2.1		

e Estimated

# 08066500 Trinity River at Romayor, TX--Continued



# 08067000 Trinity River at Liberty, TX (Partial-record Station)

LOCATION.--Lat  $30^{\circ}03'27$ ", long  $94^{\circ}49'05$ ", Liberty County, Hydrologic Unit 12030203, at downstream side of downstream bridge on U.S. Highway 90 in Liberty, 450 ft downstream from Texas and New Orleans Railroad Co. bridge, and at mile 40.3.

DRAINAGE AREA. -- 17,468 mi<sup>2</sup>

PERIOD OF RECORD.--Oct. 1938 to Sept. 1940 (gage heights, discharge measurements, and some records of daily discharge), Oct. 1940 to current year (daily mean discharges above 10,000 ft<sup>3</sup>/s). Gage-height records collected in this vicinity since 1903 are contained in reports of the National Weather Service.

Water-quality records.--Chemical data: Oct. 1970 to Sept. 1972. Biochemical data: Oct. 1970 to Sept. 1972. Pesticide data: May 1971 to Sept. 1972.

REVISED RECORDS. -- WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2.22 ft below NGVD of 1929; unadjusted for land-surface subsidence. Prior to Mar. 13, 1973, nonrecording gage at site at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Discharges for current year were computed using stage-discharge relation. During years with predominantly low releases from Livingston Reservoir, discharges are estimated using records for Trinity River near Romayor (station 08066500), intervening area computation, and discharge measurements. Since installation of gage in water year 1941, at least 10% of contributing drainage area has been regulated. Many diversions above station for municipal supplies, industrial uses, and irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft<sup>3</sup>/s, Oct. 12, 1994, gage height, 31.00 ft; minimum not determined (affected by tides); minimum gage height observed, 2.32 ft, Nov. 24, 1970. Maximum gage height since at least 1903, 31.00 ft, Oct. 21, 1994 (at 0500 hours).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 8-11, 1922, reached a stage of 28.6 ft, present datum, from observations by the National Weather Service at nonrecording gage on railroad bridge upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,100 ft<sup>3</sup>/s, Dec. 31, gage height, 26.48 ft; minimum discharge not determined (affected by tides); minimum gage height, 5.10 ft, Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES DAY NOV DEC JUN SEP OCT JAN FEB MAR APR MAY JUL AUG 35400 17400 17500 2 ---32900 ------19200 15000 ------3 \_\_\_ \_\_\_ \_\_\_ 28200 \_\_\_ \_\_\_ 20400 13900 \_\_\_ \_\_\_ \_\_\_ \_\_\_ 21700 22200 13800 ---5 18400 21500 11400 ---21700 6 15200 10100 ---------13400 13800 ---22500 ---------------\_\_\_ \_\_\_ ---8 \_\_\_ \_\_\_ 12600 18100 \_\_\_ 24600 \_\_\_ \_\_\_ \_\_\_ 28700 10 ---------20300 ---31500 ---------11 \_\_\_ \_\_\_ 20500 \_\_\_ 32100 \_\_\_ \_\_\_ 12 ---------20600 ---32200 ---------------18900 ---\_\_\_ ------------13 20700 ---32300 ---10200 \_\_\_ \_\_\_ 20700 \_\_\_ 32100 \_\_\_ \_\_\_ ------15 12400 ---28800 ---20800 ---31200 ---------------16 13900 27500 20800 29200 \_\_\_ \_\_\_ 17 13400 ---25400 ---20700 ---23100 ------------10100 12800 18000 \_\_\_ 25200 21900 18 10700 19 \_\_\_ ---\_\_\_ \_\_\_ 12300 22000 12000 22600 ---------20 12000 ---22400 ---22300 11000 ---------21 11100 26000 21900 11100 2.2 ------27100 ---------21600 11100 ------------23 28500 21300 11100 24 \_\_\_ \_\_\_ 21100 11100 \_\_\_ 28800 ------------25 ---28700 ------21000 11100 ------26 28700 10200 21000 11100 \_\_\_ ------------2.7 ---30000 ---11800 20900 11100 ------28 31700 14400 20000 10400 20 \_\_\_ \_\_\_ 33100 \_\_\_ \_\_\_ 15400 18400 \_\_\_ \_\_\_ \_\_\_ \_\_\_ ------------------15700 ---------30 34500 17800 35400 16600

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## 08067070 CWA Canal near Dayton, TX

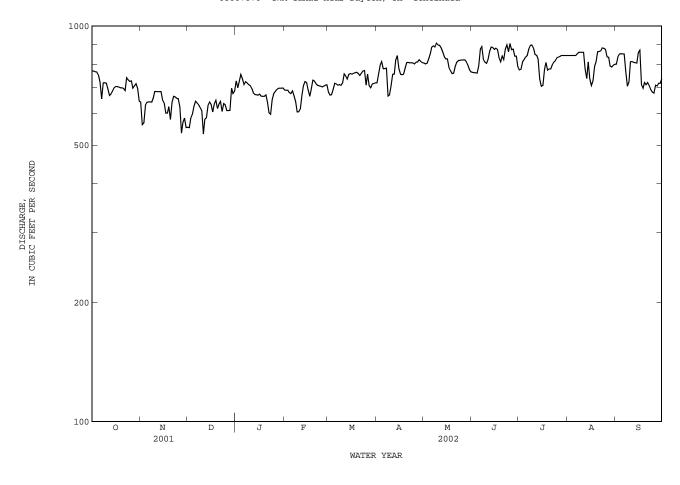
PERIOD OF RECORD.--Apr. 1981 to current year. Prior to Oct. 1990, published as "CIWA Canal near Dayton".

GAGE.--Water-stage recorder. Datum of gage not determined. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. There are no known diversions between pumping plant and the gage. Water is pumped from the Trinity River for industrial and municipal use in the area.

		DISCHARGE	, CUBIC	FEET PER			YEAR OCTOBER VALUES	2001 TO	SEPTEMBE	R 2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	771 769 766 765 752	642 563 569 631 641	555 553 584 598 626	726 698 723 754 735	689 688 688 679 675	680 669 670 691 716	756 796 812	807 802 804 825 850	764 762 762 760 794	774 778 811 821 835	842 842 842 842 842	801 836 850 851 850
6 7 8 9 10	721 654 718 719 717	643 643 642 658 683	645 639 632 622 611	711 723 718 711 707	685 665 642 607	714 709 711 707 717	782 665 669	884 891 885 905 895	873 887 824 810 805	842 875 894 896 880	842 851 858 858 858	850 766 704 722 812
11 12 13 14 15	693 667 672 684 698	683 682 682 683 650	533 581 586 630 642	695 678 671 670 669	617 669 706 724 719	757 748 734 754 758	756 820 841	894 881 860 836 826	823 863 885 882 873	846 843 825 734 704	858 778 737 811 734	813 809 807 806 855
16 17 18 19 20	703 703 701 698 698	639 602 602 625 580	634 606 635 649 618	672 664 664 664 670	688 664 692 730 726	755 759 762 764 759	753 755 783	826 785 770 758 759	879 873 831 812 840	707 777 809 773 779	707 727 791 811 862	868 712 696 719 710
21 22 23 24 25	695 687 740 731 724	641 664 662 657 655	634 644 608 637 632	640 603 598 651 674	715 708 706 704 701	750 759 769 771 709	807 808 806	791 811 818 819 820	823 874 896 860 903	779 796 810 817 831	862 865 880 878 872	719 706 690 680 677
26 27 28 29 30 31	726 696 705 714 695 645	624 536 570 585 554	611 611 612 696 674 684	682 690 696 697 697	704 708 710 	756 707 698 713 716 718	810 821 813 808	821 821 813 798 777 766	871 874 839 839 790	835 837 842 842 842 842	835 833 792 788 796 800	708 705 717 716 736
MEAN 7 MAX MIN AC-FT 4	10.5 771 645 3690	629.7 6 683 536 37470 3	9222 20.1 696 533 8130	21248 685.4 754 598 42150	19216 686.3 730 607 38110	22600 729.0 771 669 44830	778.8 841 665 46340	25598 825.7 905 758 50770	25171 839.0 903 760 49930	25276 815.4 896 704 50130	25494 822.4 880 707 50570	22891 763.0 868 677 45400
MEAN 4 MAX (WY) MIN		473.4 4 734 2000 236	DATA FOI 718 2000 219 1983	459.1 710 1999 233 1983	EARS 1981 466.3 716 1999 226 1983	483.4 729 2002 235 1985	779 2002 275	YEAR (WY) 538.8 831 1998 273 1986	570.2 973 1998 303 1983	586.8 888 1998 293 1983	565.1 875 1999 237 1983	535.2 814 2000 251 1983
SUMMARY S	TATISTIC	!S	FOR 20	001 CALEN	DAR YEAR		FOR 2002 WA	TER YEAR		WATER YEAR	s 1981 -	2002
ANNUAL TO ANNUAL ME HIGHEST A LOWEST DA ANNUAL SE MAXIMUM P MAXIMUM P ANNUAL RU 10 PERCEN 50 PERCEN 90 PERCEN	AN NNUAL ME NUAL MEA AILY MEA ILY MEAN VEN-DAY EAK FLOW EAK STAG NOFF (AC T EXCEED T EXCEED	N N MINIMUM EE :-FT) S		252306 691.2 902 340 562 500400 818 680 606	Aug 21 May 15 Nov 27		270998 742.5 905 533 562 1050 3.00 537500 858 734 633	May 9 Dec 11 Nov 27 May 8 May 8		517.4 764 259 1080 52 167 1220 3.07 374800 770 522 256		1983

08067070 CWA Canal near Dayton, TX--Continued



## 08067118 Lake Charlotte near Anahuac, TX

LOCATION.--Lat 29°52′02", long 94°42′53", Chambers County, Hydrologic Unit 12030203, on east side of Lake Charlotte, which is connected to the Trinity River by a small channel, 1.0 mi west of State Highway 563, 1.9 mi north of Interstate Highway 10, and 2.7 mi northeast of Wallisville.

DRAINAGE AREA.--55 mi<sup>2</sup>.

WATER-STAGE RECORDS

PERIOD OF RECORD. -- Dec. 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.81 ft below NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Lake Charlotte is a shallow natural lake within the Trinity River delta. Dec. 1991 to Nov. 9, 1992, the lowest stilling well intake was at gage height of 7.3 ft. Thereafter it was at gage height of 6.7 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.9 ft, Oct. 22, 1994, at 1345 hours.

EXTREMES FOR CURRENT YEAR. -- Maximum gage height, 11.94 acre-ft, Jan. 2, 3.

		GAGE	HEIGHT F	ROM DCP,		WATER YEA		2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	6.94 6.93 6.89 6.92 7.05	7.20 7.17 7.15 7.08 6.94	8.06 8.27 8.30 8.25 8.16	11.85 11.9 11.92 11.80 11.66	<6.88 <6.88 <6.88 <6.88	7.10 7.72 7.32 <6.88 6.92	10.19 10.36 10.57 10.66 10.79	11.10 11.04 10.81 10.60 10.36	7.89 7.70 7.64 7.65 7.60	7.41 7.33 7.31 7.27 7.06	<6.88 <6.88 <6.88 <6.88	<6.88 7.02 7.16 7.34 7.59
6 7 8 9 10	6.99 6.86 7.06 7.38 7.62	7.02 7.03 6.94 6.91 <6.88	8.08 7.90 7.60 7.08 <6.88	11.41 11.01 10.61 10.24 9.73	<6.88 7.31 8.03 8.90 9.68		10.92 11.08 11.50 11.64 11.66	9.98 9.60 9.37 9.12 8.61	7.52 7.40 7.36 7.45 7.46	<6.88 <6.88 <6.88 7.10 7.24	<6.88 <6.88 <6.88 <6.88	7.75 8.12 8.86 9.51 9.14
11 12 13 14 15	7.97 8.24 8.48 8.64 8.78	<6.88 <6.88 <6.88 7.04 7.32	<6.88 7.36 8.14 9.42 10.48	9.12 8.48 7.88 7.38 6.89	10.10 10.38 10.59 10.71 10.83		11.73 11.79 11.81 11.85 11.89	8.26 8.34 8.38 8.08 8.32	7.57 7.62 7.47 7.27 <6.88	7.13 7.09 7.19 7.14 7.07	7.40 7.54 7.82 8.02 8.45	8.66 8.17 7.75 7.58 7.53
16 17 18 19 20	9.29 9.51 9.74 9.80 9.76	7.55 7.67 7.85 7.98 7.84	11.21 11.60 11.61 11.58 11.47	<6.88 <6.88 <6.88 <6.88	10.88 10.90 10.94 10.84 10.14	7.17	11.91 11.86 11.68 11.53 11.45	8.67 8.92 8.82 8.70 8.86	7.08 <6.88 <6.88 6.97 7.21	7.29 7.42 7.27 7.11 7.03	9.08 8.74 8.23 7.84 7.57	7.31 7.24 7.37 7.56 8.08
21 22 23 24 25	9.69 9.50 9.07 8.63 8.14	7.55 7.40 7.51 7.69 7.55	11.40 11.45 11.52 11.53 11.57	<6.88 <6.88 6.93 6.89 <6.88	9.32 8.69 8.14 7.79 7.61	<6.88 <6.88 7.17	11.41 11.38 11.33 11.29 11.24	9.09 9.28 9.46 9.55 9.56	7.07 7.01 7.10 7.05 7.03	7.02 6.97 6.94 6.92 6.94	7.38 7.27 7.15 7.10 7.04	8.49 8.69 8.39 8.07 8.01
26 27 28 29 30 31	7.71 7.45 7.10 6.98 6.90 7.04	7.54 7.90 7.69 7.63 7.77	11.62 11.63 11.65 11.69 11.73 11.79	<6.88 <6.88 7.11 7.11 7.10 7.24	7.26 <6.88 <6.88 	7.58 7.83 8.44 9.13 9.63 10.06	11.20 11.22 11.28 11.21 11.13	9.52 9.51 9.50 9.24 8.73 8.24	7.14 7.36 7.39 7.21 7.43	6.99 7.11 7.28 7.22 7.00 <6.88	<6.88 <6.88 <6.88 <6.88 <6.88	7.69 7.44 7.48 7.52 7.38
MAX	9.80	7.98	11.79	11.92	10.94	10.06	11.91	11.10	7.89	7.42	9.08	9.51

<sup>&</sup>lt; Actual value is known to be less than the value shown

## 08067118 Lake Charlotte near Anahuac, TX--Continued

WATER-OUALITY RECORDS

PERIOD OF RECORD .--

CHEMICAL DATA: Dec. 1991 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Oct. 1994 to current year. WATER TEMPERATURE: Dec. 1991 to current year.

INSTRUMENTATION. -- Water-quality monitor since June 1995.

REMARKS.--Records good. Interruption in the record was due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum recorded, 4,560 microsiemens/cm, Nov. 17, 1997; minimum recorded, 46 microsiemens/cm, Oct. 20, 1994.
WATER TEMPERATURES: Maximum, 40.5°C, July 13, 2001; minimum, 4.0°C, Mar. 4, 2002.

EXTREMES FOR CURRENT YEAR.-

SPECIFIC CONDUCTANCE: Maximum recorded, 532 microsiemens/cm, June 29; minimum recorded, 116 microsiemens/cm, Aug. 17. WATER TEMPERATURE: Maximum, 40.0°C, July 23; minimum, 4.0°C, Mar. 4.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	VEMBER		DE	CEMBER			JANUARY	
1	357	331	344	367	349	356	340	329	334	343	325	333
2	358	330	347	383	356	366	339	322	335	336	326	332
3	351	338	347	363	356	359	323	294	306	337	329	333
4	353	341	349	358	347	353	307	287	293	338	331	333
5	351	321	345	354	345	351	293	279	288	333	305	323
6	345	309	330	359	349	355	284	272	279	314	301	304
7	346	294	314	360	353	356	323	277	293	309	301	305
8	334	307	324	373	360	364	338	269	294	309	304	306
9	356	329	337	388	373	378	284	270	278	325	304	314
10	349	335	340	390	378	382	300	279	285	308	297	303
11	358	329	341	397	379	387	325	293	308	325	299	311
12	364	318	332	399	384	390	370	282	314	327	306	315
13	371	317	334	392	378	383	293	258	275	392	320	335
14	326	313	321	399	380	387	291	258	284	364	316	338
15	322	317	320	394	376	383	266	236	251	349	323	329
16	322	299	314	405	382	395	275	258	264	372	324	341
17	315	292	305	407	386	394	279	266	274	418	329	358
18	309	302	304	397	382	388	279	265	274	388	316	345
19	311	304	307	394	372	385	275	214	250	339	316	327
20	312	303	308	394	377	385	238	214	224	371	329	351
21	318	307	312	403	390	396	246	234	239	354	336	343
22	327	316	319	410	389	399	282	241	264	454	335	352
23	334	327	330	438	385	410	310	272	291	365	335	342
24	335	330	333	388	376	382	307	289	299	370	322	340
25	343	333	338	399	385	390	299	289	292	404	327	348
26 27 28 29 30 31	333 329 335 340 341 354	320 315 318 324 325 322	326 320 327 333 334 334	435 386 354 346 347 	380 308 308 292 334	400 347 334 328 339	311 310 322 332 331 337	288 291 293 319 329 326	298 300 311 327 330 331	371 360 352 352 354 363	333 337 344 337 327 325	353 348 348 348 345 342
MONTH	371	292	328	438	292	374	370	214	290	454	297	334

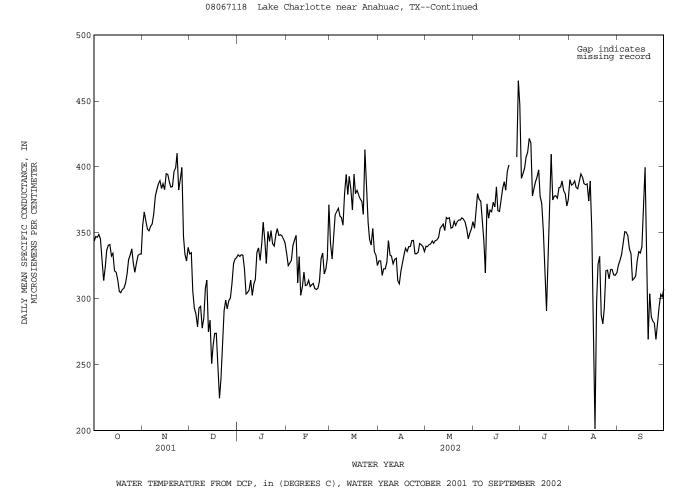
08067118 Lake Charlotte near Anahuac, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SPECIFIC	C CONDUC	CTANCE	FROM DCP,	in US/CM	@ 25C,	WATER	YEAR	OCTOBER	2001 TO	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
	FI	EBRUARY			MARCH				APRIL			MAY	
1	349	320	334	376	328	342		335	321	329	346	335	340
2	341	313	325	342	323	330		333	318	329	344	335	339
3	333	321	327	356		346		332	309	318	346	336	341
4 5	336 353	321 329	329 340	377 378	350 355	363 366		328 336	313 313	323 323	351 347	336 341	341 344
6	349	339	344	402	336	369		336	320	328	346	337	342
7	373	313	348	404	344	362		349	334	344	351	337	344
8	329	303	312	378		362		406	318	333	350	341	344
9 10	383 311	303 297	332 303	386 391		356 380		342 336	327 322	332 326	349 357	343 347	346 353
11	315	303	309	414	382	394		335	323	330	393	349	355
12	327	310	320	423	351	379		335	319	331	365	350	356
13	315 316	308	310	423 409	362	393 383		330 316	302 302	314	364 366	342 354	352 362
14 15	317	306 308	310 314	379	361 354	363 367		326	312	311 321	365	354	362
16	312	308	309	413	376	395		330	321	327	366	359	361
17	316	308	311	399	364	380		341	330	334	366	343	353
18 19	326 312	305 305	312 308	393 391	366 367	382 379		342 339	333 331	338 336	361 363	346 354	354 359
20	311	304	307	381		376		346	335	339	361	348	355
21	312	302	308	389	344	374		342	337	340	372	354	358
22	322	303	313	411 445	337	364		348 355	341	344	371 365	353	360
23 24	346 362	316 315	330 334	445 422	378 346	413 381		355 341	331 330	344 334	365 365	351 357	360 361
25	368	313	319	396	333	358		341	327	334	365	353	360
26	352	303	322	363	329	345		346	327	335	363	354	358
27	346	313	331	372	329	341		348 345	338 337	342	361	341	353
28 29	388	329	371	372 361 354	346 326	353 336		345 349	337 323	341 340	349 354	342 344	345 349
30				346	320	333		341	323	336	354	349	353
31				328	322	325					361	355	358
MONTH	388	297	323	445	322	365		406	302	332	393	335	352
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN			MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	
DAY	MAX 359		353	415	JULY 362	391		406	AUGUST	390	330	SEPTEMBE	ER 325
1 2	359 396	JUNE 348 353	353 367	415 423	JULY 362 370	391 395		406 395	AUGUST 367 375	390 386	330 333	320 324	325 329
1 2 3	359 396 387	JUNE 348 353 369	353 367 380	415 423 425	JULY 362 370 381	391 395 399		406 395 397	367 375 374	390 386 387	330 333 340	320 324 329	325 329 333
1 2	359 396	JUNE 348 353	353 367	415 423	JULY 362 370 381 383	391 395		406 395	AUGUST 367 375	390 386	330 333	320 324	325 329
1 2 3 4	359 396 387 380 384 366	JUNE 348 353 369 367 360	353 367 380 375 374	415 423 425 422 431	JULY 362 370 381 383 402 409	391 395 399 407 411		406 395 397 399 390	367 375 374 377 376	390 386 387 389 384	330 333 340 353 358	320 324 329 337 341 346	325 329 333 342 351
1 2 3 4 5	359 396 387 380 384 366 356	JUNE 348 353 369 367 360 352 329	353 367 380 375 374 359 345	415 423 425 422 431 433 440	JULY  362 370 381 383 402  409 380	391 395 399 407 411 422 419		406 395 397 399 390 391 394	367 375 374 377 376 369 384	390 386 387 389 384 383 389	330 333 340 353 358 353	320 324 329 337 341 346 343	325 329 333 342 351 351 348
1 2 3 4 5	359 396 387 380 384 366 356 337	JUNE  348 353 369 367 360  352 329 307	353 367 380 375 374 359 345 320	415 423 425 422 431 433 440 429	JULY  362 370 381 383 402  409 380 357	391 395 399 407 411 422 419 378		406 395 397 399 390 391 394 403	367 375 374 377 376 369 384 387	390 386 387 389 384 383 389 395	330 333 340 353 358 353 356 350	320 324 329 337 341 346 343 329	325 329 333 342 351 351 348 338
1 2 3 4 5	359 396 387 380 384 366 356	JUNE 348 353 369 367 360 352 329	353 367 380 375 374 359 345	415 423 425 422 431 433 440	JULY  362 370 381 383 402 409 380 357 369	391 395 399 407 411 422 419		406 395 397 399 390 391 394	367 375 374 377 376 369 384	390 386 387 389 384 383 389	330 333 340 353 358 353	320 324 329 337 341 346 343	325 329 333 342 351 351 348
1 2 3 4 5 6 7 8 9	359 396 387 380 384 366 356 337 425 375	JUNE  348 353 369 367 360  352 329 307 333	353 367 380 375 374 359 345 320 372	415 423 425 422 431 433 440 429 392 401	JULY  362 370 381 383 402 409 380 357 369 375	391 395 399 407 411 422 419 378 383 388		406 395 397 399 390 391 394 403 397 393	367 375 374 377 376 369 384 387 388 383	390 386 387 389 384 383 389 395 392 387	330 333 340 353 358 356 350 344 341	320 324 329 337 341 346 343 329 329 296	325 329 333 342 351 351 348 338 334 314
1 2 3 4 5 6 7 8 9 10	359 396 387 380 384 366 356 337 425 375	348 353 369 367 360 352 329 307 333 351 356 355	353 367 380 375 374 359 345 320 372 361 367 366	415 423 425 422 431 433 440 429 392 401	JULY  362 370 381 383 402  409 380 357 369 375  376 383	391 395 399 407 411 422 419 378 383 383 388		406 395 397 399 390 391 394 403 397 393 389 394	367 375 374 377 376 369 384 387 388 383	390 386 387 389 384 383 389 395 392 387	330 333 340 353 358 356 350 344 341	320 324 329 337 341 346 343 329 329 296	325 329 333 342 351 351 348 338 334 314
1 2 3 4 5 6 7 8 9 10 11 12 13	359 396 387 380 384 366 356 337 425 375 383 376 384	JUNE  348 353 369 367 360  352 329 307 333 351  356 355 365	353 367 380 375 374 359 345 320 372 361 367 366 373	415 423 425 422 431 433 440 429 392 401 407 410 395	JULY  362 370 381 383 402  409 380 357 369 375 376 376 383 347	391 395 399 407 411 422 419 378 383 388 392 398 378		406 395 397 399 390 391 394 403 397 393 389 394 388	367 375 374 377 376 369 384 387 388 383 381 380 365	390 386 387 389 384 383 395 392 387 386 387 374	330 333 340 353 358 356 350 344 341 330 321 335	320 324 329 337 341 346 343 329 296 300 312 320	325 329 333 342 351 351 348 338 334 314
1 2 3 4 5 6 7 8 9 10	359 396 387 380 384 366 356 337 425 375	348 353 369 367 360 352 329 307 333 351 356 355	353 367 380 375 374 359 345 320 372 361 367 366	415 423 425 422 431 433 440 429 392 401	JULY  362 370 381 383 402  409 380 357 369 375  376 383	391 395 399 407 411 422 419 378 383 383 388		406 395 397 399 390 391 394 403 397 393 389 394	367 375 374 377 376 369 384 387 388 383	390 386 387 389 384 383 389 395 392 387	330 333 340 353 358 356 350 344 341	320 324 329 337 341 346 343 329 329 296	325 329 333 342 351 351 348 338 334 314
1 2 3 4 5 6 7 8 9 10 11 12 13 14	359 396 387 380 384 366 356 337 425 375 383 376 384	348 353 369 367 360 352 307 333 351 356 355 365 353	353 367 380 375 374 359 345 320 372 361 367 366 373 370	415 423 425 422 431 433 440 429 392 401 407 410 395 382	JULY  362 370 381 383 402  409 380 357 369 375 376 383 347 359 313	391 395 399 407 411 422 419 378 383 388 392 398 378 378		406 395 397 399 390 391 394 403 397 393 389 389 388 460	367 375 374 377 376 369 384 387 388 383 381 380 365 364	390 386 387 389 384 383 389 395 392 387 386 387 374 389	330 333 340 353 358 353 356 350 344 341 330 321 335 340	320 324 329 337 341 346 343 329 329 296 300 312 320 333	325 329 333 342 351 351 348 338 334 314 315 317 329 336
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	359 396 387 380 384 366 356 337 425 375 383 376 384 384 397	348 353 369 367 360 352 329 307 333 351 356 355 363 377 353 357	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313	391 395 399 407 411 422 419 378 388 398 378 372 352		406 395 397 399 390 391 394 403 397 393 389 388 460 385 328 294	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310	390 386 387 389 384 383 392 387 386 387 37 374 389 352 269 201	330 333 340 353 358 356 350 344 341 330 321 335 340 342	320 324 329 337 341 346 343 329 296 300 312 320 320 333 330 328 329	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	359 396 387 380 384 366 356 337 425 375 383 376 384 384 397	JUNE  348 353 369 367 360  352 329 307 333 351  356 355 365 353 377 353	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 367 367	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313 278 252 305	391 395 399 407 411 422 419 378 388 398 378 372 352 318 291 339		406 395 397 399 390 391 394 403 397 393 393 394 460 385 328 294 317	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286	390 386 387 389 384 383 389 395 392 387 374 389 352 269 201 297	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 449 478	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 329 323	325 329 333 342 351 351 348 338 331 314 315 317 329 336 335 339 340 400
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	359 396 387 380 384 366 356 337 425 375 383 376 384 384 397	348 353 369 367 360 352 329 307 333 351 356 355 363 377 353 357	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313	391 395 399 407 411 422 419 378 388 398 378 372 352		406 395 397 399 390 391 394 403 397 393 389 388 460 385 328 294	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310	390 386 387 389 384 383 392 387 386 387 37 374 389 352 269 201	330 333 340 353 358 356 350 344 341 330 321 335 340 342	320 324 329 337 341 346 343 329 296 300 312 320 320 333 330 328 329	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	359 396 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 403 410	348 353 367 360 352 329 307 333 351 356 355 365 357 356 367 369	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 367 366 374 384 389	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408 447	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313 278 252 305 336 371	391 395 399 407 411 422 419 378 388 398 378 372 352 318 291 339 379 410		406 395 397 399 390 391 394 403 397 393 388 460 385 328 294 317 345	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314	390 386 387 389 384 383 389 395 392 387 374 389 352 269 201 297 326 332	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 449 478 366 282	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 225 8	325 329 333 342 351 351 348 338 334 314 315 317 329 336 335 339 364 400 333 269
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	359 396 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 403	JUNE  348 353 369 367 360  352 329 307 333 351  356 355 353 377  353 367	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408	JULY  362 370 381 383 402 409 380 357 369 375 376 383 347 359 313 278 252 305 336	391 395 399 407 411 422 419 378 383 388 392 398 378 372 352 318 291 339 379		406 395 397 399 390 391 403 397 393 388 460 385 328 294 317 345	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310	390 386 387 389 384 383 395 392 387 386 387 374 389 352 269 201 297 326	330 333 340 353 358 353 356 350 344 341 330 321 335 340 342 359 449 478 366	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 329 270	325 329 333 342 351 351 348 338 334 314 315 317 327 336 335 339 364 400 333
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	359 396 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 403 410	348 353 369 367 360 352 329 307 333 351 356 355 365 357 356 367 369 368 380 383	353 367 380 375 374 359 345 320 372 361 367 366 373 385 367 384 384 389 382 396 401	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 4375 393 408 447	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313  278 278 252 305 336 371 356 369 368	391 395 399 407 411 422 419 378 383 388 392 378 372 352 318 291 339 379 410 375 378		406 395 397 399 390 391 394 403 397 393 389 389 385 328 460 385 328 329 344 332 329 329 329	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272	390 386 387 389 384 383 389 395 392 387 374 386 387 374 389 352 269 201 297 326 332 288 281 293	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 478 366 282 314 313 296	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 258 274 274 279 264	325 329 333 342 351 351 348 338 334 314 315 317 329 336 335 339 364 400 333 269
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	359 396 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 403 410 401 417	348 353 369 367 360 352 329 307 333 351 356 355 365 365 365 367 367 369 368 380	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 366 374 389	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 4375 393 408 447	JULY  362 370 381 383 402  409 380 357 369 375  376 383 347 359 313  278 252 305 336 371  356 369	391 395 399 407 411 422 419 378 383 388 392 398 372 352 318 291 339 379 410		406 395 397 399 390 391 394 403 397 393 389 389 385 328 294 317 344 332 295	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314	390 386 387 389 384 383 389 395 392 387 386 387 37 374 389 352 269 201 297 326 332 288 288	330 333 340 353 358 353 356 350 344 341 330 321 335 340 342 359 449 478 366 282	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 258 274 279	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339 364 400 333 269
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	359 396 387 380 384 366 356 357 425 375 383 376 384 397 390 381 389 403 410 401 417 417 	348 353 369 367 360 352 329 307 333 351 356 355 365 365 365 365 367 369 367 369 367	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 367 366 373 384 384 384 389	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408 447	JULY  362 370 381 383 402  409 380 357 375  376 383 347 359 313  278 252 305 336 371 356 369 376 376 376	391 395 399 407 411 422 419 378 383 388 392 398 378 372 352 318 291 379 410 375 378 378 378		406 395 397 399 390 391 394 403 397 393 389 388 460 385 328 294 345 344 332 295 329 329	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311	390 386 387 389 384 383 395 392 387 386 387 374 389 352 269 201 297 326 332 288 281 293 321	330 333 340 353 358 353 356 350 344 341 330 321 335 340 342 359 449 478 366 282 314 313 296 309	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 270 258 274 279 264 258	325 329 333 342 351 351 348 338 334 314 315 317 329 336 335 339 364 400 303 3269 304 286 283 281
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	359 386 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 410 401 417 417 	348 353 369 367 360 352 329 307 333 351 356 355 365 353 377 356 367 369 368 380 383 	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 366 374 389 382 396 401	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 4047 391 386 389 382 392	JULY  362 370 381 383 402 409 380 357 369 375 376 383 347 359 313 278 252 305 336 371 356 369 368 370 376 378 378	391 395 399 407 411 422 419 378 383 388 392 398 372 352 318 291 339 379 410 375 378 378 378 378 378 378 378 378 378 378		406 395 397 399 390 391 394 403 397 393 389 394 3460 385 328 294 317 344 3295 3295 3296 332 3193 326	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311 309	390 386 387 389 384 383 389 395 392 387 386 387 374 389 352 269 201 297 326 332 288 281 293 321 322 315 322	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 449 478 366 282 314 313 296 309 287	320 324 329 337 341 346 343 329 329 296 300 312 320 333 330 328 329 258 270 258 274 279 264 279 264 279 268 258 258	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339 364 400 333 269 304 286 283 281 269
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	359 396 387 380 384 366 356 337 425 375 383 376 384 387 390 381 389 403 410 401 417 417 	348 353 369 367 360 352 329 307 333 351 356 355 367 357 356 367 369 368 380 383   395	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 366 374 384 384 382 396 401  407	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408 447 391 386 389 382 392	JULY  362 370 381 383 402  409 380 357 375  376 383 347 359 313  278 252 305 336 371 356 369 368 370 376 378 375 370	391 395 399 407 411 422 419 378 383 388 378 372 352 318 291 339 379 410 375 378 378 376 384 385 384		406 395 397 399 390 391 394 403 397 393 394 403 385 328 294 317 344 322 329 326 332 328	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311 309	390 386 387 389 384 383 389 392 387 386 387 37 374 389 352 269 201 297 326 281 293 321 322 315 322 322	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 478 366 282 314 313 296 309 287	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 258 270 258 274 279 264 258 271 290 300	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339 364 400 333 269 304 286 283 281 269
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	359 396 387 380 384 366 356 357 425 375 383 376 384 397 390 381 389 403 410 401 417 417   447 532	JUNE  348 353 369 367 360  352 329 307 333 351  356 355 365 365 365 367 369 368 380 380 383 380 383 380 383 380 383 380 383 380 383 380 383 380 383 380 383 380	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 367 384 384 389 382 396 401  407 465	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408 447 391 386 389 382 392 403	JULY  362 370 381 383 402 409 380 357 369 375 376 383 347 359 313 278 252 305 336 371 356 369 376 378 376 378 376 378 376 378 375 376	391 395 399 407 411 422 419 378 383 388 372 352 318 291 379 410 375 378 378 378 378 378 378 378 378 378 378		406 395 397 399 390 391 394 403 397 393 389 388 460 385 328 294 345 344 332 329 329 326 332 319 326 332 332	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311 309	390 386 387 389 384 383 395 392 387 386 387 374 389 352 269 201 297 326 332 288 281 293 321 322 322 323	330 333 340 353 358 353 356 350 344 341 330 321 335 340 342 359 449 478 366 282 314 313 296 309 287 291 307 307 307	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 270 258 274 279 264 258 258 271 290 300 298	325 329 333 342 351 351 348 338 334 314 315 317 329 336 335 339 364 400 333 269 304 286 283 281 269 282 294 301
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	359 396 387 380 384 366 356 337 425 375 383 376 384 387 390 381 389 403 410 401 417 417 	348 353 369 367 360 352 329 307 333 351 356 355 367 357 356 367 369 368 380 383   395	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 366 374 384 384 382 396 401  407	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 408 447 391 386 389 382 392	JULY  362 370 381 383 402  409 380 357 375  376 383 347 359 313  278 252 305 336 371 356 369 368 370 376 378 375 370	391 395 399 407 411 422 419 378 383 388 378 372 352 318 291 339 379 410 375 378 378 376 384 385 384		406 395 397 399 390 391 394 403 397 393 394 403 385 328 294 317 344 322 329 326 332 328	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311 309	390 386 387 389 384 383 389 392 387 386 387 37 374 389 352 269 201 297 326 281 293 321 322 315 322 322	330 333 340 353 358 356 350 344 341 330 321 335 340 342 359 478 366 282 314 313 296 309 287	320 324 329 337 341 346 343 329 296 300 312 320 333 330 328 329 258 270 258 274 279 264 258 271 290 300	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339 364 400 333 269 304 286 283 281 269
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	359 387 380 384 366 356 337 425 375 383 376 384 397 390 381 389 403 410 401 417 417 	348 353 369 367 360 352 329 307 333 351 356 355 365 365 367 369 368 380 380 383 367 367 369	353 367 380 375 374 359 345 320 372 361 367 366 373 370 385 367 366 374 384 389 401  407 465 447	415 423 425 422 431 433 440 429 392 401 407 410 395 382 387 354 375 393 404 395 392 401 395 392 401 395 392 401 395 392 401 395 395 395 395 395 395 395 395 395 395	JULY  362 370 381 383 402 409 380 357 369 375 376 383 347 359 313 278 252 305 371 356 369 376 378 3770 376 378 375 370 376 378 375 370 360 360	391 395 399 407 411 422 419 378 383 388 372 352 318 291 339 410 375 378 378 378 378 378 378 378 378 378 378		406 395 397 399 390 391 394 403 397 393 389 394 460 385 328 294 317 329 329 329 329 329 329 321 321 322 322 322 322 322 322 322 322	367 375 374 377 376 369 384 387 388 383 381 380 365 364 310 147 116 286 317 314 234 245 272 311 309	390 386 387 389 384 383 389 395 392 387 386 387 374 389 352 269 201 297 326 332 288 281 293 321 322 322 322 322 318 318 319 322 331 332 332 333 334 335 337 337 338 339 339 340 350 350 350 350 350 350 350 35	330 333 340 353 358 353 356 350 344 341 330 321 335 340 342 359 449 478 366 282 314 313 296 309 287 291 307 307 307 313	320 324 329 337 341 346 343 329 329 296 300 312 320 333 330 328 329 258 274 279 264 279 264 279 264 279 264 279 264 279 279 264 279 270 270 270 271 272 273 274 279 270 270 270 270 270 270 270 270 270 270	325 329 333 342 351 351 348 334 314 315 317 329 336 335 339 364 400 333 269 281 286 283 281 269

347

MEAN



DAY MAX MIN MAX MIN MEAN MAX MIN MEAN MAX MIN OCTOBER NOVEMBER DECEMBER JANUARY

MEAN

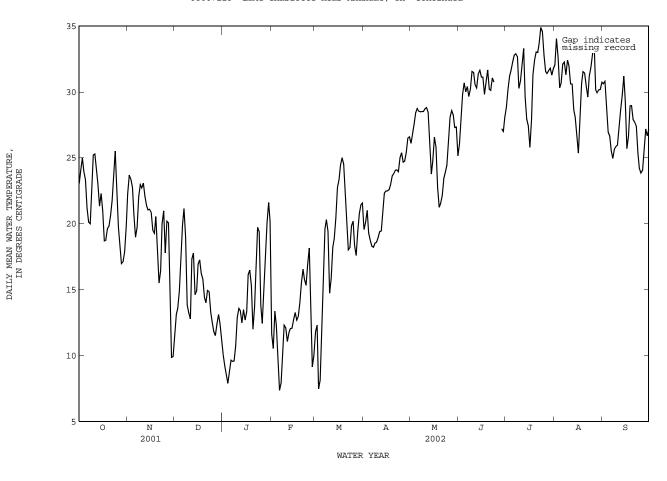
1	26.2	20.1	23.1	24.4	20.1	22.3	12.8	11.0	11.6	10.8	9.4	10.1
2	28.1	20.2	24.1	25.4	22.2	23.7	13.5	12.8	13.1	9.5	8.6	9.2
3	28.0	22.3	25.0	25.1	21.8	23.4	14.0	13.3	13.6	9.0	8.2	8.6
4	25.1	22.8	24.0	24.6	21.3	22.7	16.1	14.0	14.9	8.5	7.5	7.9
5	24.1	22.5	23.3	22.6	18.8	20.7	20.2	15.9	17.7	9.6	8.2	8.8
6	23.1	19.7	21.2	21.0	17.2	19.0	21.4	18.5	20.0	10.2	9.1	9.7
7	23.6	17.0	20.1	22.3	17.4	19.7	22.0	20.5	21.2	10.0	9.0	9.6
8	21.2	18.8	20.0	26.4	19.0	22.1	21.1	15.7	19.0	10.3	8.8	9.6
9	24.1	20.3	22.3	25.2	21.3	23.0	15.7	12.7	13.8	12.0	9.8	10.7
10	27.2	23.8	25.2	26.6	19.5	22.7	15.9	10.9	13.2	14.0	11.9	12.9
11 12 13 14 15	26.4 25.1 25.0 22.7 23.9	24.4 23.2 21.2 19.8 21.1	25.3 24.1 23.0 21.3 22.3	26.0 23.5 23.0 23.2 22.2	20.1 20.4 19.6 19.6 20.1	23.1 22.1 21.4 21.0 21.1	14.6 18.2 18.6 15.6	11.9 14.6 15.6 14.3 14.3	12.8 17.3 17.8 14.6 14.9	13.9 14.6 13.6 15.1 15.0	12.8 12.6 11.2 12.3 10.6	13.6 13.4 12.5 13.5 12.7
16	23.5	19.2	21.0	21.5	20.2	20.9	17.9	15.5	16.9	16.1	10.2	13.3
17	19.3	17.9	18.7	20.4	18.7	19.5	17.8	16.6	17.3	17.9	14.6	16.1
18	19.6	18.2	18.7	20.7	17.8	19.3	16.6	15.9	16.2	17.6	15.9	16.5
19	21.7	18.6	19.6	22.5	19.0	20.5	16.3	14.9	15.8	17.0	11.0	15.3
20	20.2	19.5	19.8	19.7	15.6	17.9	14.9	14.2	14.4	13.5	9.2	12.0
21	21.0	20.1	20.6	17.4	13.6	15.5	14.5	13.7	14.0	16.7	11.3	13.7
22	23.4	20.8	21.8	18.0	14.8	16.4	15.6	14.2	14.9	18.8	14.5	16.2
23	25.5	21.9	23.6	22.3	17.3	20.0	15.6	14.2	14.9	21.1	18.2	19.7
24	27.0	24.3	25.5	21.9	19.6	21.0	14.2	13.0	13.3	21.3	15.4	19.4
25	26.0	20.9	22.9	19.6	16.4	17.8	13.1	12.2	12.6	16.5	11.3	13.8
26 27 28 29 30 31	20.9 20.6 18.4 20.2 20.1 22.8	18.7 16.6 15.3 14.9 15.9	19.8 18.5 17.0 17.1 17.9	22.9 22.5 17.1 12.6 11.9	17.4 17.1 12.6 8.2 8.0	20.2 20.1 15.1 9.9 9.9	12.3 11.9 13.3 13.6 13.1 12.0	11.3 11.1 11.8 12.8 12.0 10.8	11.8 11.5 12.4 13.1 12.4 11.3	16.2 19.4 19.4 21.5 23.1 22.0	8.4 11.6 16.1 18.9 20.6 16.2	12.4 15.1 17.7 20.1 21.6 20.2
MONTH	28.1	14.9	21.5	26.6	8.0	19.7	22.0	10.8	14.8	23.1	7.5	13.7

08067118 Lake Charlotte near Anahuac, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX				MIN		MAX	MIN		MAX	MIN	MEAN
		FEBRUARY						APRIL			MAY	
1 2 3 4 5	16.2 14.5 15.1 13.6 11.3	8.7 6.5 11.6 11.3 7.9	11.7 10.5 13.4 12.3 9.5	13.0 13.3 9.0 12.3 14.5	10.7 8.2 5.8 4.0 8.0	11.8 12.3 7.5 8.1 11.4	21.0 21.9 21.6 20.4 19.2	18.8 19.0 20.4 18.7 18.4	19.6 20.1 21.0 19.3 18.7	27.1 27.7 28.6 29.1 29.6	25.0 25.9 26.6 27.8 28.1	26.1 26.8 27.5 28.4 28.7
0	7.9 10.6 12.7 14.1 13.8	6.6 5.2 8.9 10.3 10.9	7.4 7.9 10.5 12.3 12.1	19.2 24.5 21.5 21.0 19.1	12.4 16.0 19.0 14.8 10.7	15.5 19.6 20.3 19.4 14.7	18.9 18.9 19.1 19.2 19.2	17.8 17.6 17.9 18.1 18.8	18.3 18.2 18.5 18.6 18.9	29.5 29.6 29.6 29.6 30.4	27.6 27.5 27.6 27.6 27.7	28.5 28.5 28.5 28.5 28.7
11 12 13 14 15	12.5 12.6 12.3 12.5 14.8	10.1 11.0 11.8 11.7 12.1	11.1 11.7 12.1 12.1 12.7	17.4 20.9 22.9 23.0 24.9	14.1 16.1 14.6 17.6 20.8	15.9 18.2 18.9 20.4 22.7	21.5 19.8 23.4 23.3 23.3	18.7 19.2 19.4 21.2 21.3	19.4 19.4 20.8 22.3 22.5	30.4 30.0 28.8 25.5 26.5	27.4 27.0 24.0 21.9 23.0	28.8 28.4 26.4 23.8 24.8
16 17 18 19 20		12.6 12.2 12.8 13.2 14.5	13.3 12.7 12.9 14.0 15.5	24.8 26.4 27.4 26.1 23.9	21.9 22.8 23.3 23.6 19.9	23.4 24.4 25.0 24.5 22.6	23.1 23.8 25.0 24.9 24.6	22.1 21.9 21.9 22.4 22.8	22.5 22.6 23.0 23.6 23.8	28.3 27.5 24.2 22.4 22.4	25.0 24.2 21.6 19.8 20.6	22.8
	18.4 16.9 17.7 19.4 19.8	15.2 14.5 13.5 14.7 16.8		24.1 24.1 21.8 22.6 20.9			24.8 24.5 25.7 25.8 25.9	23.3 22.9 22.8 23.8 24.9	24.1 24.1 23.9 25.0 25.4	23.4 24.3 24.6 25.6 28.2	21.4 22.8 23.4 23.5 24.8	22.1 23.4 23.9 24.4 26.3
26 27 28 29 30 31	17.9 13.5 13.2 	8.1 5.3 6.7 		20.5 19.4 20.8 21.8 22.6 21.9	16.1 15.7 18.4 19.9 20.4 21.0		25.4 25.6 26.6 28.0 27.6			29.5 29.7 28.8 28.1 29.1 26.4	26.9 27.6 27.6 26.4 26.3 23.9	28.6 28.2 27.3 27.3
MONTH	19.8	5.2			4.0		28.0	17.6		30.4	19.8	26.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN		MIN JULY			AUGUST			SEPTEMBE	
	MAX 28.3 30.2 32.4 32.8 31.0	JUNE 24.0			JULY			AUGUST			SEPTEMBE	30.6 30.8 28.9 27.0
1 2 3 4 5 6 7 8	28.3 30.2 32.4 32.8	JUNE 24.0 25.8 27.8 28.8 28.4	26.1 27.8 29.8 30.7 30.0		JULY 27.7 27.7 29.0 29.2 29.3	28.8 30.2 31.2 31.6 32.3		AUGUST  28.8 29.3 29.8 27.1 26.8	32.1 34.0 32.6 30.3 30.7		28.3 28.3 27.8 26.4 25.5	30.6 30.8 28.9 27.0 26.6 25.6 25.0 25.7 25.9
1 2 3 4 5 6 7 8 9	28.3 30.2 32.4 32.8 31.0 33.6 31.3 33.7 33.4 33.9	JUNE 24.0 25.8 27.8 28.8 28.4 27.3 28.1 27.1 29.9 29.3	26.1 27.8 29.8 30.7 30.0 30.4 29.6 30.2 31.5 31.5	30.2 33.3 33.3 34.2 35.7	JULY  27.7 27.7 29.0 29.2 29.3 29.3 29.3 29.4 27.9	28.8 30.2 31.2 31.6 32.3 32.8 32.9 32.7 30.3 30.8	35.6 39.6 36.3 34.7 35.1 36.0 35.4 33.9 35.3	28.8 29.3 29.8 27.1 26.8 28.2 29.6 28.0 29.4 29.7	32.1 34.0 32.6 30.3 30.7 32.1 32.3 31.3 32.4 32.0	32.7 33.0 31.2 27.8 27.6 26.9 25.8 26.0 26.2 27.3	28.3 28.3 27.8 26.4 25.5 24.6 24.3 25.2 25.6 25.0	30.6 30.8 28.9 27.0 26.6 25.6 25.7 25.9 26.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14	28.3 30.2 32.4 32.8 31.0 33.6 31.3 33.7 33.4 33.9 32.0 32.6 33.6 34.2	JUNE 24.0 25.8 27.8 28.8 28.4 27.3 28.1 27.1 29.9 29.3 29.7 28.0 28.8 29.2	26.1 27.8 29.8 30.7 30.0 30.4 29.6 30.2 31.5 31.5 30.6 30.3 31.4 431.6	30.2 33.3 33.3 34.2 35.7 36.9 37.0 35.7 32.1 34.2 35.6 37.0 32.3 31.0	JULY 27.7 27.7 29.0 29.2 29.3 29.3 28.2 29.5 29.4 27.9 28.6 30.6 26.8 25.6	28.8 30.2 31.2 31.6 32.3 32.8 32.9 32.7 30.3 30.8 32.0 33.3 29.6 27.9	35.6 39.6 36.3 34.7 35.1 36.0 35.4 33.9 35.3 34.1 32.3 31.7 30.4 29.0	AUGUST  28.8 29.3 29.8 27.1 26.8  28.2 29.6 28.0 29.4 29.7  28.9 29.6 28.0 27.4	32.1 34.0 32.6 30.3 30.7 32.1 32.3 31.3 32.4 32.0 30.6 28.6 28.6	32.7 33.0 31.2 27.8 27.6 26.9 25.8 26.0 26.2 27.3 28.6 30.4 33.8 34.1	SEPTEMBE  28.3 28.3 27.8 26.4 25.5  24.6 24.3 25.6 25.0 25.8 26.9 27.0 29.3	30.6 30.8 28.9 27.0 26.6 25.6 25.7 25.9 26.0 27.3 28.6 29.7 31.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	28.3 30.2 32.4 32.8 31.0 33.6 31.3 33.4 33.9 32.0 32.6 33.6 34.2 35.0 34.9 32.8 34.9 35.0	JUNE  24.0 25.8 28.8 28.4  27.3 28.1 27.1 29.9 29.3  29.7 28.0 28.8 29.2 27.1  27.4 27.3 26.9 28.6	26.1 27.8 29.8 30.7 30.0 30.4 29.6 30.2 31.5 31.5 31.5 31.6 31.1 31.1 29.8 30.7	30.2 33.3 33.3 34.2 35.7 36.9 37.0 35.7 32.1 34.2 35.6 37.0 32.3 31.0 28.8 26.9 32.1 34.1	JULY  27.7 27.7 29.0 29.2 29.3 29.3 28.2 29.5 29.4 27.9 28.6 30.6 26.8 25.6 26.2 24.8 24.4 28.4 29.6	28.8 30.2 31.2 31.6 32.3 32.8 32.9 32.7 30.3 30.8 32.0 33.3 29.6 27.9 27.4 25.8 27.9 31.3 32.4	35.6 39.6 36.3 34.7 35.1 36.0 35.4 33.9 35.3 34.1 32.3 31.7 30.4 29.0 28.4 26.7 30.3 32.3	AUGUST  28.8 29.3 29.8 27.1 26.8  28.2 29.6 28.0 29.4 29.7  28.9 29.6 28.0 27.4 24.9	32.1 34.0 32.6 30.3 30.7 32.1 32.3 31.3 32.4 32.0 30.6 30.6 28.1 26.7 25.4 27.6 30.6 31.5	32.7 33.0 31.2 27.8 27.6 26.9 25.8 26.0 26.2 27.3 28.6 30.4 33.8 34.1 31.5 26.9 28.9 28.9	28.3 28.3 27.8 26.4 25.5 24.6 24.3 25.6 25.0 25.8 26.9 27.0 29.3 26.9 25.0 24.8 27.0 27.8	30.6 30.8 28.9 27.0 26.6 25.6 25.7 25.9 26.0 27.3 28.6 29.3 29.3 25.7 26.6 29.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	28.3 30.2 32.4 32.8 31.0 33.6 31.3 33.4 33.9 32.0 32.6 33.6 34.2 35.0 34.9 32.8 34.9 32.8 34.9 32.8 34.9 32.8 34.9	JUNE  24.0 25.8 28.8 28.4  27.3 28.1 27.1 29.9 29.3  29.7 28.0 28.8 29.2 27.1  27.4 27.3 26.9 28.6 29.4  27.3 28.5	26.1 27.8 29.8 30.7 30.0 30.4 29.6 31.5 31.5 31.5 31.6 31.1 31.1 29.8 30.7 30.2 30.3	30.2 33.3 33.3 34.2 35.7 36.9 37.0 32.1 34.2 35.6 37.0 32.3 31.0 28.8 26.9 32.1 35.4 36.3	JULY  27.7 27.7 29.0 29.2 29.3 29.3 28.2 29.4 27.9 28.6 30.6 26.2 24.8 24.4 28.4 29.6 29.9 30.5 30.5 30.5 30.5	28.8 30.2 31.2 31.6 32.3 32.8 32.9 30.3 30.8 32.7 30.3 29.6 27.9 27.4 25.8 27.9 31.3 32.4 33.0 33.7 33.7 34.6	35.6 39.6 36.3 34.7 35.1 36.0 35.4 35.3 34.1 32.3 31.7 30.4 29.0 28.4 26.7 30.3 33.4 33.2 33.4 33.2	AUGUST  28.8 29.3 29.8 27.1 26.8  28.2 29.6 28.0 29.4 29.7  28.9 29.6 28.0 27.4 24.9  24.6 25.6 29.1 30.0 29.9	32.1 34.0 32.6 30.3 30.7 32.1 32.3 31.3 32.4 32.0 30.6 30.6 28.1 26.7 25.4 27.6 30.6 31.5 31.4	32.7 33.0 31.2 27.8 27.6 26.9 25.8 26.0 26.2 27.3 28.6 30.4 33.8 34.1 31.5 26.9 28.9 31.2 30.6 29.0	28.3 28.3 27.8 26.4 25.5 24.6 24.3 25.6 25.0 25.8 26.9 27.0 29.3 26.9 27.0 24.8 27.0 27.8 26.5 25.0	30.6 30.8 28.9 27.0 26.6 25.6 25.7 25.9 26.0 27.3 28.6 29.7 31.2 29.3 25.7 26.6 29.7 27.9 27.9

# 08067118 Lake Charlotte near Anahuac, TX--Continued



## 08067252 Trinity River at Wallisville, TX

LOCATION.--Lat 29°48′44", long 94°43′52", Chambers County, Hydrologic Unit 12030203, in the center of the Trinity River Dam at the U.S. Army Corps of Engineers river lock which is located 3.0 miles west along Interstate Highway 10 from the Interstate overpass over Farm Road 563, 2.0 miles below Wallisville and 3.9 river miles from mouth.

DRAINAGE AREA.--17,796 mi<sup>2</sup>.

#### WATER-STAGE RECORDS

PERIOD OF RECORD. -- Oct. 1994 to current year.

GAGE.--Water-stage recorders. Datum of gage is NGVD of 1929. Prior to Mar. 1999 at site 2.3 mi upstream. Satellite telemeter at station.

REMARKS.--Records good. Pressure transducers are installed to record river elevation on the upstream and downstream side of the dam. Mostly tidal.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.70 ft, Oct. 22, 1994; minimum elevation, -1.64 ft, Nov. 2 and 3, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (upstream), 4.12 ft, Sept. 8; minimum elevation (upstream), -0.91 ft, Mar. 10. Maximum elevation (downstream), 3.85 ft, Sept. 7; minimum elevation (downstream), -1.52 ft, Jan. 25.

ELEVATION (UPSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OC"	FOBER	NOVE	MBER	DECI	EMBER	JAI	NUARY	FEBI	RUARY	M	ARCH
1 2 3 4 5	1.47 1.49 1.63 1.70	0.73 0.84 0.79 0.78 0.63	1.98 1.92 1.92 1.82 1.64	0.90 0.56 0.58 0.28 0.35	2.05 2.15 1.96 1.93 2.01	1.04 1.03 0.93 0.88 0.98	3.32 3.41 3.25 3.16 3.38	3.10 3.09 3.04 2.95 2.79	   1.38	   -0.07	2.63 2.66 0.16 1.19 1.12	1.45 0.16 -0.70 -0.44 0.09
6 7 8 9 10	1.67 1.41 1.82 2.50 2.66	-0.13 0.53 0.84 1.23 1.43	1.96 1.81 1.71 1.66 1.52	0.62 0.30 0.40 0.34 0.26	1.88 1.75 1.56 0.42 1.07	0.84 0.65 -0.16 -0.19 0.24	2.81 2.25 2.03 2.02 1.83	2.25 1.88 1.78 1.61 1.24	1.04 1.31 2.06 2.31 2.25	0.08 0.58 1.27 1.61 1.48	1.27 1.36 1.93 1.87 1.42	0.15 -0.04 0.41 -0.33 -0.91
11 12 13 14 15	3.04 2.53 3.04 2.00 2.87	1.71 1.59 1.65 1.37 1.46	1.34 1.42 1.81 2.05 2.53	0.41 0.59 0.64 0.84 1.24	2.17 2.41 2.20 2.51 3.33	0.24 1.46 1.46 1.94 2.43	1.51 0.79 1.19 1.33 1.07	0.55 0.02 -0.12 -0.01 -0.06	1.94 2.18 2.26 2.34 2.42	1.54 1.85 1.94 2.03 2.18	1.78 1.65 1.00 1.45 1.55	0.67 -0.06 0.21 0.86 0.99
16 17 18 19 20	2.55 2.81 2.73 2.60 2.39	1.48 1.82 1.80 1.71 1.65	2.62 2.21 2.33 2.39 2.06	1.44 2.07 2.21 2.06 1.59	3.52 3.59 3.09 3.24 2.72	2.90 2.77 2.74 2.60 2.50	1.34 1.17 1.06 1.04 1.15	0.36 0.20 -0.03 -0.58 -0.18	2.30 2.35 2.81 2.88 2.56	2.01 2.12 2.19 2.41 1.44	1.37 1.42 1.69 2.31 2.11	0.68 0.69 0.56 0.63 0.05
21 22 23 24 25	2.57 2.47 2.44 2.41 1.39	1.73 1.46 1.37 1.10 0.67	1.70 1.77 2.05 2.14 1.82	1.58 1.60 1.77 1.80 1.28	2.90 3.18 3.11 3.00 3.02	2.66 2.83 2.73 2.72 2.79	1.26 1.42 1.54 1.54 0.80	0.49 0.49 0.32 0.08 -0.39	1.81 1.23 1.74 1.73	1.00 0.29 0.35 0.45 0.62	0.33 1.31 1.95 2.04 1.86	-0.78 -0.68 0.17 0.94 0.83
26 27 28 29 30 31	1.76 1.78 1.57 1.43 1.62 1.94	0.66 0.83 0.78 0.83 0.64 1.13	2.18 2.54 1.08 1.16 1.96	1.74 0.75 0.33 0.52 0.84	3.15 3.04 3.32 3.32 3.22 3.28	2.74 2.72 2.85 2.88 2.92 3.02	1.40 1.63 1.85 1.54 1.72	0.40 0.86 0.37 0.37 0.78 0.02	1.11 0.38 1.45 	-0.67 -0.72 0.38 	1.40 2.03 2.25 2.40 2.86 2.56	0.26 0.99 1.66 1.88 1.66 1.63
MONTH	3.04	-0.13	2.62	0.26	3.59	-0.19	3.41	-0.58			2.86	-0.91

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# 08067252 Trinity River at Wallisville, TX--Continued

ELEVATION (UPSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AP	RIL	М	AY	JT	JNE	JT	ULY	AU	GUST	SEP	TEMBER
1 2 3 4 5	2.36 2.71 2.47 2.41 2.74	1.47 1.80 1.77 1.74 1.88	3.37 3.06 2.75 2.50 2.56	2.68 2.49 2.17 1.93 1.92	2.10 2.12 2.17 2.00 1.97	0.81 0.96 1.35 1.44 1.23	1.94 1.84 1.72 1.56 1.36	0.86 0.92 1.03 0.63 0.24	1.20 1.11 1.04 1.46 1.63	0.46 0.13 0.04 0.03 0.14	1.76 1.88 2.09 2.17 2.13	0.59 0.66 0.69 1.05 2.01
6 7 8 9 10	2.96 3.48 3.65 3.47 3.36	1.97 2.76 3.01 2.96 2.88	2.53 2.56 3.01 2.85 2.03	2.14 2.25 2.31 1.39 1.26	1.79 1.94 1.94 2.14 2.32	1.01 0.82 0.70 0.97 0.82	1.00  1.56 2.15 1.77	-0.08 -0.11  0.60 0.51	1.30 1.24 1.87 1.72 2.36	0.09 -0.23 -0.05 0.28 0.61	2.32 3.20 4.12 4.09 3.01	2.05 2.32 3.20 2.54 1.97
11 12 13 14 15	3.40 3.38 3.28 3.38 3.63	3.13 3.10 2.96 3.06 3.14	2.65 2.92 2.03 2.31 2.60	1.42 1.89 0.65 0.36 1.41	2.54 2.21 2.10 1.49 1.78	1.01 0.86 0.65 0.49 -0.20	1.83 1.92 1.56 1.50	0.31 0.36 0.58 0.37 0.51	2.30 2.22 2.33 2.31 2.93	1.30 1.53 2.13 2.10 2.18	2.73 2.18 1.99 2.28 2.10	1.17 0.65 0.70 1.11 0.49
16 17 18 19 20	3.56 3.33 3.17 3.17 3.20	3.05 3.03 2.67 2.63 2.61	2.66   2.00 2.33	1.62  0.80 1.32	1.64 1.13 1.51 	0.72 -0.15 0.41 	1.96 1.69 1.42 1.42	0.89 0.70 0.59 0.45 0.40	3.32 2.03 1.90 1.83 1.74	0.94 0.64 0.64 0.62 0.51	1.74 2.18 2.07 2.44 2.05	0.50 0.54 0.88 1.25 1.57
21 22 23 24 25	3.24 3.09 2.89 2.98 2.86	2.71 2.42 2.20 2.55 2.40	2.49 2.58 2.74 2.49 2.40	1.61 2.03 2.03 1.89 1.75	1.82 1.80 1.84 2.02	0.38 0.59 0.37 0.33	1.34 1.40 1.26 1.42 1.52	0.34 0.33 0.26 0.23 0.36	1.61 1.58 1.38 1.31 1.17	0.31 0.41 0.36 0.46 0.51	2.30 2.07 2.15 2.45 2.47	1.52 1.23 1.33 1.43 1.16
26 27 28 29 30 31	2.83 3.64 3.27 2.95 3.50	2.41 2.51 2.71 2.40 2.41	2.39 2.65 2.80 2.38 2.11 2.06	1.58 1.58 1.61 1.52 1.02 0.68	2.07 2.50 1.71 2.60 2.17	0.53 0.84 0.67 0.56 1.17	1.48 1.79 1.66 1.62 1.41	0.58 0.59 0.93 0.91 0.75 0.68	1.51 1.42 1.01 0.97 1.34 1.54	0.43 0.20 0.08 0.23 0.43 0.51	1.89 1.99 2.29 2.38 1.94	0.29 0.78 1.07 0.73 0.62
MONTH	3.65	1.47							3.32	-0.23	4.12	0.29

ELEVATION (DOWNSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OC"	FOBER	NOVE	EMBER	DECE	EMBER	JAI	NUARY	FEBI	RUARY	M	ARCH
1 2 3 4 5	1.33 1.36 1.50 1.57 1.61	0.60 0.70 0.67 0.64 0.50	1.85 1.79 1.80 1.69	0.76 0.42 0.45 0.15 0.22	1.91 2.01 1.83 1.79 1.88	0.87 0.88 0.76 0.72 0.82	2.98 2.99 2.90 2.87 3.07	2.75 2.77 2.67 2.64 2.51	1.01  1.30	   -0.13	2.53 2.58 0.09 1.11 1.05	1.38 0.09 -0.76 -0.49 0.02
6 7 8 9 10	1.53 1.29 1.70 2.37 2.53	-0.26 0.39 0.70 1.08 1.30	1.84 1.69 1.59 1.55 1.40	0.50 0.18 0.28 0.23 0.15	1.74 1.61 1.43 0.31 0.97	0.69 0.50 -0.28 -0.30 0.14	2.52 2.00 1.76 1.75 1.58	1.97 1.53 1.40 1.19 1.04	0.97 1.13 1.88 2.12 2.02	0.00 0.44 1.04 1.25 1.17	1.18 1.30 1.85 1.79 1.36	0.07 -0.11 0.33 -0.37 -0.94
11 12 13 14 15	2.91 2.38 2.90 1.81 2.68	1.55 1.44 1.50 1.16 1.30	1.22 1.31 1.70 1.94 2.40	0.30 0.48 0.52 0.71 1.11	2.06 2.29 1.95 2.24 3.05	0.13 1.33 1.28 1.39 2.11	1.32 0.66 1.08 1.21 0.96	0.40 -0.10 -0.25 -0.13 -0.17	1.69 1.90 2.00 2.03 2.16	1.21 1.50 1.57 1.73 1.87	1.72 1.58 0.93 1.39 1.47	0.59 -0.13 0.13 0.79 0.91
16 17 18 19 20	2.35 2.62 2.55 2.41 2.21	1.27 1.65 1.63 1.53 1.46	2.50 1.81 1.36 1.44 0.08	0.73 -0.09 -0.45 -0.55 -1.17	3.26 3.31 2.80 2.93 2.47	2.62 2.56 2.50 2.31 2.23	1.24 1.06 0.96 0.94 1.04	0.25 0.09 -0.13 -0.66 -0.27	2.08 2.08 2.57 2.64 2.32	1.75 1.80 1.94 2.07 1.27	1.29 1.34 1.60 2.24 2.02	0.61 0.62 0.47 0.55 -0.01
21 22 23 24 25	2.40 2.33 2.29 2.26 1.26	1.56 1.30 1.22 0.96 0.54	0.98 1.61 2.08 2.13 1.67	-0.07 0.61 1.30 0.27 0.40	2.65 2.93 2.84 2.71 2.77	2.35 2.57 2.46 2.45 2.54	1.16 1.30 1.43 1.41 0.30	0.37 0.37 0.20 -0.39 -1.52	1.68 1.11 1.66 1.65 1.68	0.84 0.17 0.25 0.35 0.51	0.27 1.25 1.88 1.95 1.77	-0.83 -0.72 0.10 0.85 0.73
26 27 28 29 30 31	1.64 1.65 1.45 1.31 1.50	0.54 0.71 0.66 0.71 0.52 1.00	2.14 1.91 0.96 1.01 1.83	1.36 0.63 0.23 0.36 0.67	2.86 2.70 2.94 2.96 2.86 2.94	2.44 2.41 2.54 2.58 2.65 2.69	1.19 1.39 1.66 1.42 1.61	-0.39 -0.11 0.25 0.24 0.65 -0.09	1.00 0.32 1.39 	-0.72 -0.79 0.31 	1.31 1.91 2.06 2.22 2.69 2.37	0.13 0.85 1.41 1.67 1.54
MONTH	2.91	-0.26	2.50	-1.17	3.31	-0.30	3.07	-1.52			2.69	-0.94

# 08067252 Trinity River at Wallisville, TX--Continued

ELEVATION (DOWNSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AP	RIL	М	AY	JT	JNE	JT	ULY	AUG	GUST	SEP.	FEMBER
1 2 3 4 5	2.15 2.50 2.17 2.17 2.51	1.15 1.45 1.48 1.46 1.53	3.20 2.88 2.61 2.34 2.40	2.44 2.19 1.95 1.74 1.73	2.06 2.07 2.13 1.96 1.94	0.78 0.92 1.33 1.40 1.19	1.91 1.80 1.67 1.54 1.34	0.82 0.88 1.00 0.60 0.22	1.19 1.12 1.03 1.46 1.61	0.45 0.13 0.04 0.03 0.15	1.74 1.87 2.08 2.71 2.47	0.58 0.64 0.68 0.89 0.87
6 7 8 9 10	2.74 3.24 3.40 3.24 3.09	1.60 2.52 2.72 2.71 2.47	2.40 2.44 2.91 2.76 1.95	1.95 2.13 2.19 1.30 1.19	1.75 1.91 1.92 2.10 2.28	0.98 0.78 0.67 0.92 0.80	0.98  1.53 2.13 1.74	-0.09 -0.13  0.58 0.49	1.30 1.24 1.85 1.71 2.34	0.09 -0.22 -0.05 0.29 0.60	3.24 3.85 3.29 3.00 2.96	1.17 2.05 2.33 1.51 1.90
11 12 13 14 15	3.11 3.10 3.08 3.18 3.38	2.73 2.81 2.76 2.79 2.92	2.58 2.82 1.95 2.23 2.50	1.34 1.80 0.56 0.25 1.31	2.51 2.17 2.06 1.46 1.76	0.99 0.83 0.62 0.47 -0.20	1.82 1.92 1.55 1.47 1.13	0.30 0.35 0.57 0.35 0.48	2.28 2.46 2.44 2.37 2.90	1.29 1.52 1.29 1.22 1.44	2.70 2.16 1.97 2.26 2.07	1.13 0.62 0.67 1.09 0.48
16 17 18 19 20	3.43 3.20 3.05 3.04 3.09	2.83 2.82 2.56 2.50 2.48	2.56  1.87 2.26	1.51  0.70 1.17	1.61 1.11 1.48 	0.70 -0.16 0.39 	1.93 1.65 1.38 1.39	0.86 0.66 0.56 0.40 0.37	2.73 2.28 2.14 2.07 2.00	1.14 0.88 0.88 0.87 0.76	1.72 2.17 2.04 2.41 1.98	0.48 0.53 0.85 1.22 1.51
21 22 23 24 25	3.13 2.98 2.73 2.79 2.66	2.60 2.28 2.08 2.39 2.18	2.41 2.51 2.67 2.40 2.34	1.54 1.98 1.94 1.83 1.65	1.79 1.78 1.81 1.99	0.36 0.58 0.36 0.32	1.32 1.37 1.24 1.39 1.50	0.32 0.30 0.24 0.19 0.33	1.86 1.83 1.62 1.56 1.44	0.58 0.67 0.63 0.72 0.77	2.21 1.99 2.11 2.42 2.43	1.41 1.15 1.27 1.38 1.12
26 27 28 29 30 31	2.64 3.47 3.10 2.78 3.31	2.19 2.34 2.56 2.20 2.26	2.33 2.57 2.76 2.34 2.08 2.04	1.50 1.53 1.53 1.48 0.97 0.64	2.04 2.47 1.68 2.57 2.13	0.51 0.82 0.64 0.53 1.13	1.45 1.77 1.63 1.61 1.40	0.57 0.56 0.91 0.90 0.74 0.65	1.79 1.69 1.28 1.25 1.33	0.70 0.47 0.34 0.21 0.41 0.49	1.87 1.96 2.27 2.35 1.93	0.25 0.75 1.04 0.72 0.60
MONTH	3.47	1.15							2.90	-0.22	3.85	0.25

## 08067252 Trinity River at Wallisville, TX--Continued

#### WATER-OUALITY RECORDS

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Oct. 1995 to current year. WATER TEMPERATURE: Oct. 1995 to current year.

INSTRUMENTATION: -- Water-quality monitor since July 1995. A second water-quality monitor was installed on downstream side of dam

REMARKS.--Records good. Missing record due to malfunctions of instrumentation. Gage was relocated to permanent location after dam and lock were completed on Mar. 18, 1999, from temporary location 2.3 miles upstream. Water-quality monitors are installed to record data on the upstream and downstream sides of the dam.

#### EXTREMES FOR PERIOD OF DAILY RECORD. --

REMISS FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE (UPSTREAM): Maximum, 21,300 microsiemens/cm, Oct. 9, 1999; minimum, 109 microsiemens/cm, Apr. 5-6, 1999.
WATER TEMPERATURE (UPSTREAM): Maximum, 34.9°C, July 22, 2001; minimum, 6.4°C, Jan. 3, 2001.
SPECIFIC CONDUCTANCE (DOWNSTREAM): Maximum 34,500 microsiemens/cm, Dec. 3, 1999; minimum, 125 microsiemens/cm, Apr. 6, 1999.
WATER TEMPERATURE (DOWNSTREAM): Maximum, 34.4°C, Aug. 10, 1999; minimum, 9.1°C, Jan. 5, 2002.

#### EXTREMES FOR CURRENT YEAR. --

REMES FOR CURRENT TEAR.-
SPECIFIC CONDUCTANCE: Maximum, 2,390 microsiemens/cm, Aug. 11, 12; minimum, 122 microsiemens/cm, Sept. 22. WATER TEMPERATURE: Maximum, 33.5°C, Aug. 5, 26; minimum, 9.0°C, Jan. 5.

SPECIFIC CONDUCTANCE: Maximum, 9,620 microsiemens/cm, Sept. 7; minimum, 164 microsiemens/cm, Sept. 21, 22. WATER TEMPERATURE: Maximum, 32.6°C, Aug. 2; minimum, 9.1°C, Jan. 5.

SPECIFIC CONDUCTANCE (UPSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

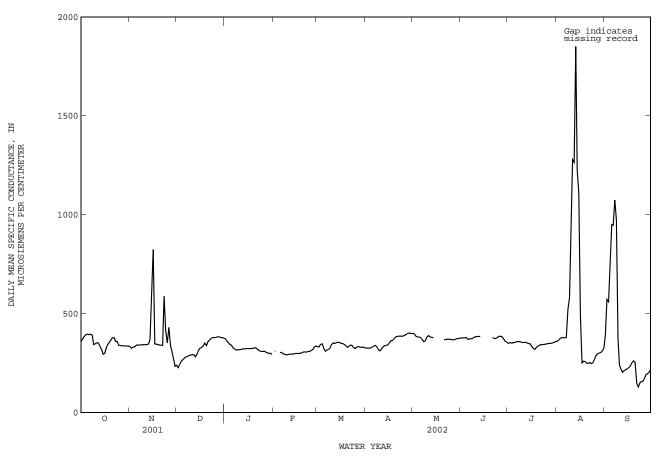
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	OVEMBER		DE	CEMBER			JANUARY	
1	366	350	359	342	317	334	244	230	238	375	371	373
2	383	361	372	333	318	324	231	225	226	370	357	363
3	393	378	386	335	325	330	252	226	243	358	348	353
4	398	389	392	340	327	332	263	251	259	349	342	345
5	402	394	396	344	333	338	273	260	267	343	332	339
6	398	390	393	353	336	342	279	271	276	332	323	327
7	401	392	396	350	336	340	283	279	281	325	316	321
8	403	356	391	345	336	341	286	280	283	318	315	316
9	359	331	343	347	341	343	289	286	288	319	315	317
10	354	341	347	346	341	343	292	289	290	319	316	317
11	356	348	352	346	342	343	297	289	292	321	317	319
12	355	343	352	345	341	343	295	289	292	323	319	321
13	355	324	337	385	342	346	290	269	281	324	321	322
14	333	312	320	583	342	369	305	271	294	324	320	322
15	312	280	293	1370	344	588	325	305	315	326	322	324
16	317	277	298	1770	348	824	330	318	325	326	321	324
17	337	315	327	349	346	347	331	325	328	325	321	322
18	350	336	343	348	344	345	348	327	337	326	323	324
19	362	346	354	347	342	344	355	342	350	327	324	325
20	373	357	367	343	340	341	343	334	338	329	326	327
21	381	373	378	341	338	340	367	339	358	329	320	325
22	382	370	378	342	337	339	370	364	367	322	313	317
23	370	354	359	909	338	588	378	369	375	314	309	311
24	362	351	359	664	358	412	380	377	379	314	304	308
25	353	329	340	414	335	352	380	377	379	314	306	309
26 27 28 29 30 31	344 349 343 342 342 343	334 328 332 332 331 330	338 338 337 336 337 335	652 364 325 285 260	335 325 284 259 215	430 339 310 273 233	381 385 385 383 380 379	377 380 380 377 377 374	379 382 383 379 378 376	313 311 307 303 312 301	308 301 299 298 292 291	310 305 302 299 299 293
MONTH	403	277	353	1770	215	372	385	225	321	375	291	322

# 08067252 Trinity River at Wallisville, TX--Continued

SPECIFIC CONDUCTANCE (UPSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				10110111,,	211 00,01	. 6 250,	WAIER YEAR	COCTODER	2001 10	ODI I DI IDDI	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				340	329	333	327	324	326	401	398	399
2	312	309	310	334	329	332	328	324	326	401	392	399
3				360	321	344	327	325	326	393	380	385
4 5	307	302	304	355 339	339 312	347 325	327 334	325 327	326 330	385 382	379 379	382 381
6	313		304			310						
7	302	302 294	297	318 321	304 311	315	339 340	334 338	336 339	381 375	373 360	378 368
8	297	292	294	325	314	319	339	328	332	361	354	358
9 10	292 294	290 292	291 293	335 354	320 335	325 344	329 314	310 308	317 311	372 390	357 372	364 382
11 12	295 297	294 294	294 295	374 377	344 340	352 349	328 336	314 328	322 332	393 385	383 379	389 382
13	296	295	296	359	347	352	340	336	338	382	377	380
14	299	296	297	368	350	356	340	337	339	380	372	376
15	299	297	298	370	348	353	345	339	342			
16	300	297	298	360	344	349	359	345	352			
17	299	298	299	352	346	349	366	359	363			
18 19	302 305	298 300	299 302	347 344	342 336	345 339	370 380	361 369	364 374			
20	308	303	305	341	322	329	385	379	382			
21	308	300	307	342	328	334	387	384	385	369	365	367
22	308	300	305	345	338	340	387	385	386	371	368	370
23	313	306	309	344	334	340	387	385	386	372	369	371
24	312	306	308	336	324	328	387	383	385	372 372	369	371 370
25	318	310	313	331	316	324	389	386	387		367	
26	332	313	318	340	322	330	395	388	391	370	366	368
27 28	335 338	324 333	330 335	336 333	331 328	334 331	398 403	395 398	396 399	368 373	366 366	367
29				332	324	328	403	400	402	375	371	367 370 373
30				333	328	331	400	398	399	377	371	374
31				330	326	328				378	373	375
MONTH				377	304	336	403	308	356			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
								AUGUST			CEDMEN	TD.
		JUNE			JULY			AUGUSI			SEPTEMBI	LK
1	381	375	377	357	344	350	365	356	359	595	322	390
2	381	375 372	377	359	344 349	354	365 368	356 360	364	595 1080	322 327	390 572
2	381 380	375 372 374	377 377	359 352	344 349 349	354 351	365 368 379	356 360 367	364 374	595 1080 1150	322 327 338	390 572 560
2	381	375 372	377	359	344 349	354	365 368	356 360	364	595 1080	322 327	390 572
2 3 4 5	381 380 382 381	375 372 374 376 366	377 377 379 370	359 352 354 357	344 349 349 351 352	354 351 352 355	365 368 379 383 389	356 360 367 373 375	364 374 377 379	595 1080 1150 1100 991	322 327 338 363 919	390 572 560 793 950
2 3 4	381 380 382	375 372 374 376	377 377 379	359 352 354 357 359 361	344 349 349 351	354 351 352	365 368 379 383 389 381 385	356 360 367 373	364 374 377 379 376 380	595 1080 1150 1100 991	322 327 338 363	390 572 560 793 950
2 3 4 5 6 7 8	381 380 382 381 378 380 380	375 372 374 376 366 366 368 371	377 377 379 370 371 373 374	359 352 354 357 359 361 362	344 349 349 351 352 355 357 354	354 351 352 355 357 359 358	365 368 379 383 389 381 385 876	356 360 367 373 375 376 376	364 374 377 379 376 380 520	595 1080 1150 1100 991 998 1160 1080	322 327 338 363 919 922 998 720	390 572 560 793 950 947 1070 974
2 3 4 5 6 7 8 9	381 380 382 381 378 380 380 385	375 372 374 376 366 366 368 371 375	377 377 379 370 371 373 374 380	359 352 354 357 359 361 362 359	344 349 349 351 352 355 357 354 355	354 351 352 355 357 359 358 357	365 368 379 383 389 381 385 876 996	356 360 367 373 375 373 376 376 393	364 374 377 379 376 380 520 581	595 1080 1150 1100 991 998 1160 1080 720	322 327 338 363 919 922 998 720 241	390 572 560 793 950 947 1070 974 374
2 3 4 5 6 7 8 9	381 380 382 381 378 380 380 385 388	375 372 374 376 366 366 368 371 375 381	377 377 379 370 371 373 374 380 383	359 352 354 357 359 361 362 359 356	344 349 349 351 352 355 357 354 355 351	354 351 352 355 357 359 358 357 354	365 368 379 383 389 381 385 876 996 2090	356 360 367 373 375 373 376 376 393 392	364 374 377 379 376 380 520 581 976	595 1080 1150 1100 991 998 1160 1080 720 244	322 327 338 363 919 922 998 720 241 238	390 572 560 793 950 947 1070 974 374 240
2 3 4 5 6 7 8 9 10	381 380 382 381 378 380 380 385 388	375 372 374 376 366 366 368 371 375 381	377 377 379 370 371 373 374 380 383	359 352 354 357 359 361 362 359 356	344 349 349 351 352 355 357 354 355 351	354 351 352 355 357 359 358 357 354	365 368 379 383 389 381 385 876 996 2090	356 360 367 373 375 376 376 393 392 532	364 374 377 379 376 380 520 581 976	595 1080 1150 1100 991 998 1160 1080 720 244	322 327 338 363 919 922 998 720 241 238	390 572 560 793 950 947 1070 974 374 240
2 3 4 5 6 7 8 9 10 11 12	381 380 382 381 378 380 380 385 388 390 394	375 372 374 376 366 366 368 371 375 381	377 377 379 370 371 373 374 380 383 384 385	359 352 354 357 359 361 362 359 356 356	344 349 349 351 352 355 357 354 355 351	354 351 352 355 357 359 358 357 354 354	365 368 379 383 389 381 385 876 996 2090	356 360 367 373 375 373 376 376 393 392 532 769	364 374 377 379 376 380 520 581 976	595 1080 1150 1100 991 998 1160 1080 720 244	322 327 338 363 919 922 998 720 241 238 198	390 572 560 793 950 947 1070 974 374 240 217 204
2 3 4 5 6 7 8 9 10 11 12 13	381 380 382 381 378 380 380 385 388 390 394	375 372 374 376 366 366 368 371 375 381	377 377 379 370 371 373 374 380 383 384 385	359 352 354 357 359 361 362 359 356 356 356	344 349 349 351 352 355 357 354 355 351 352 353 347	354 351 352 355 357 359 358 357 354 354 355 351	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160	356 360 367 373 375 373 376 376 393 392 532 769 1540	364 374 377 379 376 380 520 581 976 1280 1260 1850	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226	322 327 338 363 919 922 998 720 241 238 198 198 208	390 572 560 793 950 947 1070 974 374 240 217 204 212
2 3 4 5 6 7 8 9 10 11 12	381 380 382 381 378 380 380 385 388 390 394 388	375 372 374 376 366 368 371 375 381 381 382 381	377 377 379 370 371 373 374 380 383 384 385 384	359 352 354 357 359 361 362 359 356 356	344 349 349 351 352 355 357 354 355 351	354 351 352 355 357 359 358 357 354 354	365 368 379 383 389 381 385 876 996 2090	356 360 367 373 375 373 376 376 393 392 532 769	364 374 377 379 376 380 520 581 976	595 1080 1150 1100 991 998 1160 1080 720 244	322 327 338 363 919 922 998 720 241 238 198	390 572 560 793 950 947 1070 974 374 240 217 204
2 3 4 5 6 7 8 9 10 11 12 13 14	381 380 382 381 378 380 385 388 390 394 388 	375 372 374 376 366 366 368 371 375 381 381 382 381	377 377 379 370 371 373 374 380 383 384	359 352 354 357 359 361 362 359 356 356 357	344 349 349 351 352 355 357 354 355 351 352 353 347 346	354 351 352 355 357 359 358 357 354 354 355 351 348	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540	356 360 367 373 375 373 376 376 393 392 532 769 1540 888	364 374 377 379 376 380 520 581 976 1280 1260 1250 1230	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223	322 327 338 363 919 922 998 720 241 238 198 198 208 211	390 572 560 793 950 947 1070 974 240 217 204 212 216
2 3 4 5 6 7 8 9 10 11 12 13 14 15	381 380 382 381 378 380 380 385 388 394 388 	375 372 374 376 366 366 368 371 375 381 381 382 381 	377 377 379 370 371 373 374 380 383 384 385 384 	359 352 354 357 359 361 362 359 356 356 357 356 350 341 333	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341	354 351 352 355 357 359 358 357 354 354 355 351 348 347	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250	356 360 367 373 375 373 376 376 393 392 532 769 1540 888 793	364 374 377 379 376 380 520 520 1260 1260 1230 1110 491 250	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229	322 327 338 363 919 922 998 720 241 238 198 198 201 211 210	390 572 560 793 950 947 1070 974 240 217 204 212 216 221
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	381 380 382 381 378 380 380 385 388 390 394 388 	375 372 374 376 366 368 371 375 381 381 382 381 	377 377 379 370 371 373 374 380 383 384 	359 352 354 357 359 361 362 359 356 356 357 356 350 341 333 324	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 313	354 351 352 355 357 358 357 354 354 355 351 348 347 333 323 319	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274	356 360 367 373 375 376 393 392 532 769 1540 888 793 262 224 239	364 374 377 379 376 380 520 581 976 1280 1230 1110 491 250 259	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261	322 327 338 363 919 922 998 720 241 238 198 198 201 210	390 572 560 793 950 947 1070 974 374 240 217 204 212 216 221
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	381 380 382 381 378 380 380 385 388 394 388 	375 372 374 376 366 366 368 371 375 381 381 382 381 	377 377 379 370 371 373 374 380 383 384 385 384 	359 352 354 357 359 361 362 359 356 356 357 350 350 341 333 324 335	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 317 313 323	354 351 352 355 357 359 358 357 354 354 355 351 348 347 333 323 319 329	365 368 379 383 389 381 385 876 996 2090 2390 2160 1540 1250 798 269 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 239 246	364 374 377 379 376 380 520 581 976 1280 1260 1230 1110 491 250 259 258	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269	322 327 338 363 919 922 998 720 241 238 198 198 208 211 210 223 232 243 257	390 572 560 793 950 947 1070 974 374 240 217 204 212 216 221 227 235 252 262
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	381 380 382 381 378 380 380 385 388 390 394 388 	375 372 374 376 366 368 371 375 381 381 382 381 	377 377 379 370 371 373 374 380 383 384 	359 352 354 357 359 361 362 359 356 356 357 356 350 341 333 324 335 340	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334	354 351 352 355 357 358 357 354 354 355 351 348 347 333 323 319 329 336	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274 265 252	356 360 367 373 375 376 393 392 532 769 1540 888 793 262 224 239 246 244	364 374 377 379 376 380 520 581 976 1280 1230 1210 491 250 259 258 249	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287	322 327 338 363 919 922 998 720 241 238 198 198 211 210 223 243 257 173	390 572 560 793 950 947 1070 974 374 240 217 204 212 216 221 227 235 252 262 253
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	381 380 382 381 378 380 380 385 388 390 394 388 	375 372 374 376 366 368 371 375 381 381 	377 377 379 370 371 373 374 380 383 384   380	359 352 354 357 359 361 362 359 356 356 350 350 341 333 324 335 340	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 313 323 334 339	354 351 352 355 357 358 357 354 354 355 351 348 347 333 323 319 329 336	365 368 379 383 389 381 385 876 996 2090 2390 2160 1540 1250 798 269 274 265 252	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 239 246 244	364 374 377 379 376 380 520 581 976 1280 1230 1110 491 250 258 249	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287	322 327 338 363 919 922 998 720 241 238 198 198 208 211 210 223 243 257 173	390 572 560 793 950 947 1070 974 374 240 217 204 212 216 221 227 235 252 262 253
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	381 380 382 381 378 380 380 385 388 390 394 388 	375 372 374 376 366 368 371 375 381 381 382 381 	377 377 379 370 371 373 374 380 383 384 	359 352 354 357 359 361 362 359 356 356 357 356 350 341 333 324 335 340	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334	354 351 352 355 357 358 357 354 354 355 351 348 347 33 323 323 329 336	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274 265 252	356 360 367 373 375 376 393 392 532 769 1540 888 793 262 224 239 246 244	364 374 377 379 376 380 520 581 976 1280 1230 1210 491 250 259 258 249	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287	322 327 338 363 919 922 998 720 241 238 198 198 211 210 223 243 257 173	390 572 560 793 950 947 1070 974 240 217 204 212 216 221 227 235 252 262 253
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	381 380 382 381 378 380 380 380 394 394 398   383 376 377 382	375 372 374 376 366 368 371 375 381 381 382 381   376 371 375 371 372 376	377 377 379 370 371 373 374 380 383 384   380 374 375 379	359 352 354 357 359 361 362 359 356 356 350 350 350 341 333 344 335 340	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334 339 341 342 343	354 351 352 355 357 358 357 354 354 355 351 348 347 333 329 336 340 343 343 344 345	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 244 243 244 243 244 241 246	364 374 377 379 376 380 520 581 976 1280 1230 1110 491 259 258 249 250 252 247 251	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154	322 327 338 363 919 922 998 720 241 238 198 208 211 210 223 243 257 173 125 122 144 153	390 572 560 793 950 947 1070 974 374 240 217 204 212 216 221 227 235 252 262 253 148 129 157
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	381 380 382 381 378 380 380 385 388 394 388   383 376 377	375 372 374 376 366 368 371 375 381 381 382 381   376 371 372	377 377 379 370 371 373 374 380 383 384   380 374 375	359 352 354 357 359 361 362 359 356 356 350 350 341 333 324 335 340 343 344 345	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334 339 341 342	354 351 352 355 357 358 357 354 354 355 351 348 347 329 336 340 343 343	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274 265 252	356 360 367 373 375 376 393 392 532 769 1540 888 793 262 224 239 246 241	364 377 379 376 380 520 581 976 1280 1260 1850 1210 491 250 259 258 249 250 252 247	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287	322 327 338 363 919 922 998 720 241 238 198 198 201 210 223 243 257 173 125 122 144	390 572 560 793 950 947 1070 974 374 240 212 216 221 227 235 252 262 253 148 129 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	381 380 382 381 378 380 380 385 388 394 388   383 376 377 382 398 394	375 372 374 376 366 368 371 375 381 381 382 381   376 371 372 376 381 381	377 377 379 370 371 373 374 380 383 384   380 374 375 379 386	359 352 354 357 359 361 362 359 356 356 350 350 341 333 324 335 340 343 344 345 347 348	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334 339 341 342 343 345 346	354 351 352 355 357 358 357 354 355 351 348 347 333 329 336 340 343 344 345 346	365 368 379 383 389 381 385 876 996 2090 2390 2390 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 244 243 244 243 244 241 246 251	364 374 377 379 376 380 520 581 976 1280 1230 1110 491 250 259 258 249 250 252 247 251 267	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 208 211 210 223 243 257 173 125 122 144 153 150	390 572 560 793 950 947 1070 974 374 240 217 2216 221 227 235 252 262 253 148 129 157 157
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	381 380 382 381 378 380 380 385 388 394 388  377 377 383 376 377 382 398	375 372 374 376 366 366 368 371 375 381 382 381   376 371 372 376 381 372 376 381	377 377 379 370 371 373 374 380 383 384 385 384  380 374 375 379 386 385	359 352 354 357 359 361 362 359 356 350 350 341 333 324 335 340 343 344 345 347 348	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 313 323 334 341 342 343 345 346 347	354 351 352 355 357 359 358 357 354 354 355 351 348 347 333 323 319 329 336 340 343 344 345 346	365 368 379 383 389 381 385 876 996 2090 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 224 241 242 241 242 241 242 241 246 251	364 377 379 376 380 520 581 976 1280 1260 1850 1230 1110 491 250 259 258 249 250 252 247 251 267	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 198 208 211 210 223 232 243 257 173 125 122 144 153 150	390 572 560 793 950 947 1070 974 374 240 217 204 221 226 221 227 235 252 262 253 148 129 150 157
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	381 380 382 381 378 380 380 385 388 394 388   383 376 377 382 398 394	375 372 374 376 366 368 371 375 381 381 382 381   376 371 372 376 381 381	377 377 379 370 371 373 374 380 383 384   380 374 375 379 386	359 352 354 357 359 361 362 359 356 356 350 350 341 333 324 335 340 343 344 345 347 348	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334 339 341 342 343 345 346	354 351 352 355 357 358 357 354 355 351 348 347 333 329 336 340 343 344 345 346	365 368 379 383 389 381 385 876 996 2090 2390 2390 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 244 243 244 243 244 241 246 251	364 374 377 379 376 380 520 581 976 1280 1230 1110 491 250 259 258 249 250 252 247 251 267	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 208 211 210 223 243 257 173 125 122 144 153 150	390 572 560 793 950 947 1070 974 374 240 217 2216 221 227 235 252 262 253 148 129 157 157
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	381 380 381 378 380 380 385 388 394 388  383 376 377 382 398 394 406 378 378 378	375 372 374 376 366 366 368 371 375 381 382 381   376 371 372 376 381 372 376 381 381 372 376 381	377 377 379 370 371 373 374 380 383 384 385 384  385 387 387 387 379 379 386 385 386 385 380 374 375 375 375 375 375 375 375 375 375 375	359 352 354 357 359 361 362 359 356 356 350 341 333 324 345 347 348 349 351 352 361	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 313 323 334 339 341 342 343 345	354 351 352 355 357 359 358 357 354 354 355 351 348 347 329 336 340 343 344 345 346 348 349 350 351 354	365 368 379 383 389 381 385 876 996 2090 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 239 246 244 243 242 241 246 251 270 291 299 306	364 377 379 376 380 520 581 976 1280 1260 1230 1110 491 250 259 258 249 252 247 251 267 288 297 300 303 310	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 198 201 210 223 232 243 257 173 125 122 144 153 150	390 572 560 793 950 947 1070 974 374 240 217 204 212 226 221 227 235 252 262 253 148 129 150 157 157 173 191 196 204 204 204 204 204 205 206 206 207 207 207 208 208 208 208 208 208 208 208
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	381 380 382 381 378 380 380 385 388 394 388   383 376 377 382 398 394 406 378 378 378	375 372 374 376 366 368 371 375 381 381 381   376 371 372 376 381 372 376 381 371 375 371 375 381	377 377 379 370 371 373 374 380 383 384   380 374 375 379 386 385 382 372 372	359 352 354 357 359 361 362 359 356 350 350 341 333 324 335 340 343 344 345 347 348 349 351 352	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 313 323 334 349 349	354 351 352 355 357 358 357 354 354 355 351 348 347 329 336 340 343 344 345 346 348 349 355	365 368 379 383 389 381 385 876 996 2090 2390 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 239 246 244 243 242 241 246 251 270 291 299	364 374 377 379 376 380 520 581 976 1280 1230 1210 491 250 259 258 249 250 252 247 251 267 288 297 300 303	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 208 211 210 223 243 257 173 125 125 125 125 150 158 186 186 189 201	390 572 560 793 950 947 1070 974 374 240 212 216 221 227 235 252 262 253 148 129 157 157
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	381 380 381 378 380 380 385 388 394 388  383 376 377 382 398 394 406 378 378 378	375 372 374 376 366 366 368 371 375 381 382 381   376 371 372 376 381 372 376 381 381 372 376 381	377 377 379 370 371 373 374 380 383 384 385 384  385 387 387 387 379 379 386 385 386 385 380 374 375 375 375 375 375 375 375 375 375 375	359 352 354 357 359 361 362 359 356 356 350 341 333 324 345 347 348 349 351 352 361	344 349 349 351 352 355 357 354 355 351 352 353 347 346 341 327 317 313 323 334 339 341 342 343 345	354 351 352 355 357 359 358 357 354 354 355 351 348 347 329 336 340 343 344 345 346 348 349 350 351 354	365 368 379 383 389 381 385 876 996 2090 2390 2160 1540 1250 798 269 274 265 252 253 259 255 260 274	356 360 367 373 375 373 376 393 392 532 769 1540 888 793 262 224 239 246 244 243 242 241 246 251 270 291 299 306	364 377 379 376 380 520 581 976 1280 1260 1230 1110 491 250 259 258 249 252 247 251 267 288 297 300 303 310	595 1080 1150 1100 991 998 1160 1080 720 244 242 211 226 223 229 232 243 261 269 287 173 144 154 162 163	322 327 338 363 919 922 998 720 241 238 198 198 201 210 223 232 243 257 173 125 122 144 153 150	390 572 560 793 950 947 1070 974 374 240 217 204 212 226 221 227 235 252 262 253 148 129 150 157 157 173 191 196 204 204 204 204 204 205 206 206 207 207 207 208 208 208 208 208 208 208 208

355 TRINITY RIVER BASIN 08067252 Trinity River at Wallisville, TX--Continued



WATER TEMPERATURE (UPSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

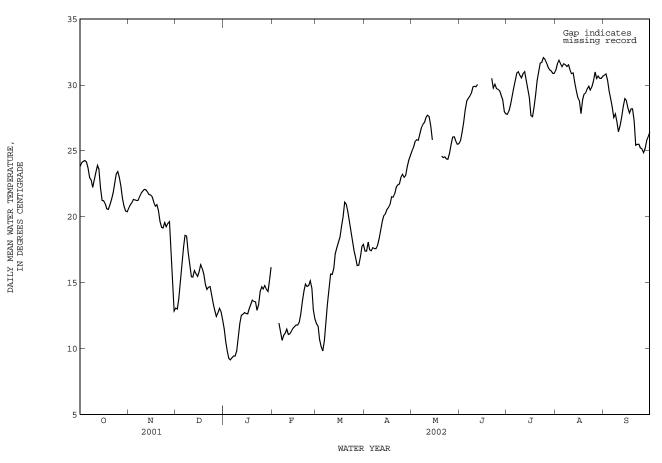
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	:	N	OVEMBER		DE	ECEMBER			JANUARY	
1 2 3 4 5	24.6 25.3 25.0 24.4 24.4	23.3 23.5 23.7 24.2 24.0	23.8 24.1 24.2 24.3 24.1	21.1 21.1 21.3 21.7 21.7	20.2 20.7 20.7 20.8 20.8	20.6 20.9 21.1 21.3 21.3	13.2 13.2 14.4 15.7 17.1	12.8 12.9 13.0 14.4 15.7	13.1 13.0 13.8 15.0 16.3	11.9 10.8 10.2 9.5 9.2	11.1 10.2 9.5 9.1 9.0	11.5 10.5 9.8 9.2 9.1
6 7 8 9 10	24.0 23.3 23.2 22.6 23.7	23.2 22.6 22.1 22.0 22.4	23.7 23.0 22.8 22.2 22.8	21.5 21.6 23.1 22.1 22.4	20.9 20.8 21.0 21.4 21.5	21.2 21.2 21.5 21.8 21.9	18.3 18.9 18.9 17.9 16.7	17.1 18.3 17.9 16.7 15.9	17.7 18.6 18.5 17.3 16.4	9.6 9.6 9.6 10.3 11.6	9.1 9.2 9.2 9.4 10.3	9.3 9.4 9.4 9.8 10.9
11 12 13 14 15	23.6 24.4 24.4 23.0 21.6	23.2 23.5 23.0 21.4 20.8	23.4 23.9 23.6 22.2 21.2	22.6 22.2 22.1 21.9 21.8	21.7 21.8 21.7 21.6 21.6	22.1 22.0 21.9 21.7 21.7	15.9 15.5 16.6 16.1 15.6	15.2 15.4 15.3 15.5 15.4	15.4 15.4 15.9 15.7	12.2 12.8 12.8 12.9 12.8	11.6 12.2 12.4 12.6 12.3	11.9 12.5 12.6 12.7 12.7
16 17 18 19 20	21.5 21.3 20.8 20.8 21.3	20.9 20.8 20.3 20.3 20.6	21.2 21.0 20.6 20.6 20.9	21.8 21.4 21.0 21.8 21.2	21.3 20.9 20.6 20.6 20.0	21.5 21.1 20.8 20.9 20.5	16.2 16.6 16.3 15.9	15.5 16.2 15.9 15.2 14.5	15.8 16.4 16.1 15.6 14.8	13.0 13.3 13.6 13.9 13.8	12.3 12.8 13.1 13.4 13.4	12.6 13.0 13.3 13.7 13.6
21 22 23 24 25	21.6 22.0 23.0 23.6 23.7	21.1 21.5 22.0 22.9 23.2	21.3 21.8 22.5 23.2 23.4	20.1 19.7 19.8 19.9	19.2 18.9 18.7 19.2 18.9	19.6 19.2 19.2 19.6 19.2	14.7 14.9 14.9 14.4 13.7	14.3 14.4 14.4 13.7 13.2	14.5 14.6 14.7 14.0 13.5	13.7 13.2 13.8 14.6 15.5	13.2 12.7 12.9 13.8 14.0	13.5 12.9 13.3 14.3 14.7
26 27 28 29 30 31	23.2 22.7 21.8 21.1 20.6 20.6	22.5 21.8 21.0 20.5 20.2 20.0	22.9 22.3 21.4 20.8 20.4 20.4	20.0 20.2 18.7 16.8 13.5	19.2 18.7 16.8 13.5 12.6	19.5 19.6 18.0 15.5 12.8	13.2 12.6 13.0 13.3 13.1 12.5	12.6 12.3 12.4 12.9 12.5 11.9	12.9 12.4 12.7 13.1 12.8 12.2	14.9 15.4 15.0 14.7 15.7 16.5	14.2 14.2 14.2 14.1 14.7	14.5 14.8 14.5 14.3 15.3
MONTH	25.3	20.0	22.4	23.1	12.6	20.3	18.9	11.9	15.0	16.5	9.0	12.4

08067252 Trinity River at Wallisville, TX--Continued

WATER TEMPERATURE (UPSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN		MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	   12.3	14.2  12.3 11.6	   11.9	11.9	11.8 11.2 10.4 9.9 9.4	11.9 11.7 10.7 10.1 9.8	17.8 18.0 18.4 17.7 17.8	17.1 16.8 17.7 17.1 17.1	17.4 17.4 18.1 17.5 17.4	25.5 25.6 26.1 26.0 26.3	24.6 24.9 25.4 25.6 25.4	25.0 25.3 25.7 25.8 25.8
6 7 8 9 10	11.6 11.0 11.3 11.5 11.7	11.0 10.3 10.8 10.8	11.3 10.6 11.0 11.1 11.5	11.3 12.9 14.3 15.0 16.5	10.0 11.1 12.7 13.7 15.0	10.6 11.9 13.4 14.4 15.7	18.0 17.8 17.7 18.2 18.7	17.4 17.4 17.4 17.5 18.0	17.4 17.6 17.6 17.8 18.3	26.6 27.2 27.3 27.5 27.9	25.9 26.4 26.7 26.8 27.2	26.2 26.7 27.0 27.1 27.5
11 12 13 14 15	11.3 11.4 11.6 11.8 11.9	10.9 10.9 11.0 11.3 11.4	11.1 11.3 11.5 11.7	15.9 16.8 17.9 17.9	15.4 15.3 16.5 17.4 17.7	15.6 16.1 17.2 17.6 18.1	19.5 20.1 20.4 20.6 20.7	18.6 19.3 19.8 19.9 20.4	19.0 19.6 20.1 20.2 20.5	28.0 27.8 27.6 26.4	27.5 27.4 26.4 25.4	27.7 27.6 26.9 25.8
16 17 18 19 20	12.0 12.1 12.2 13.2 14.2	11.6 11.5 11.8 12.2 13.2	11.8 11.8 12.0 12.7 13.6	19.2 20.2 20.8 21.8 21.4	18.1 18.7 19.4 20.6 20.4	18.5 19.3 20.0 21.1 21.0	20.8 21.4 21.9 21.8 22.1	20.6 20.6 21.2 21.2 21.4	20.7 20.9 21.5 21.5 21.8	   24.9	   24.1	   24.6
21 22 23 24 25	15.0 15.2 15.1 15.1 15.5	14.0 14.7 14.4 14.3 14.7	14.4 14.9 14.7 14.8 15.1	21.4 21.0 20.4 19.2 18.7 17.5	19.8 19.1 18.7 17.5 17.2	20.4 19.7 18.9 18.1 17.4	22.6 22.7 22.9 23.5 23.5	21.9 22.1 22.1 22.6 23.0	22.2 22.4 22.5 23.0 23.2	24.8 24.8 24.6 24.6 25.4	24.1 24.3 24.1 24.1 24.4	24.5 24.5 24.4 24.4 24.8
26 27 28 29 30 31	15.4 13.6 12.6 	13.6 12.6 12.0 	14.6 12.9 12.2 	17.3 16.6 16.7 17.4 18.1 18.0	16.6 16.0 16.0 16.4 17.4	16.9 16.3 16.3 16.9 17.7 17.9	23.3 23.6 24.3 24.7 25.0	22.8 22.6 23.2 24.0 24.4	23.0 23.1 23.8 24.3 24.6	26.0 26.4 26.3 26.0 25.8 25.8	25.0 25.7 25.9 25.6 25.2 25.3	25.5 26.0 26.1 25.8 25.5 25.5
MONTH				21.8	9.4	16.2	25.0	16.8	20.5			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN		MIN JULY	MEAN		MIN AUGUST			SEPTEMB	ER
DAY  1 2 3 4 5	MAX 26.3 26.9 27.9 28.6 29.2		MEAN 25.8 26.4 27.1 28.1 28.8	28.1 28.7 29.5 30.0 30.2	JULY 27.5 27.7 28.1 28.6 29.3	MEAN  27.8 28.0 28.5 29.1 29.8		AUGUST 30.5 30.9 31.3	31.1		30.3 30.4 29.9 29.1	
1 2 3 4	26.3 26.9 27.9 28.6	JUNE 25.4 25.9 26.6 27.4	25.8 26.4 27.1 28.1	28.1 28.7 29.5 30.0	JULY 27.5 27.7 28.1 28.6 29.3	27.8 28.0 28.5 29.1 29.8	32.2 32.6 32.7 32.9	30.5 30.9 31.3 31.2 30.6 30.9 31.1 30.7 31.2	31.1 31.6 31.9 31.6 31.4	31.5 32.1 31.1 30.0	30.3 30.4 29.9 29.1 28.6 27.7 27.3 27.4 26.1	30.7 30.8 30.4 29.5
1 2 3 4 5 6 7 8 9 10	26.3 26.9 27.9 28.6 29.2 29.3 29.5 30.2 30.5	JUNE  25.4 25.9 26.6 27.4 28.4  28.7 29.0 29.0 29.3 29.6  29.6 29.7	25.8 26.4 27.1 28.1 28.8 29.0 29.1 29.4 29.8 29.9	28.1 28.7 29.5 30.0 30.2 30.8 32.0 32.2 31.4	JULY 27.5 27.7 28.1 28.6 29.3 30.0 30.3 30.4 30.5 30.2	27.8 28.0 28.5 29.1 29.8 30.3 30.9 31.0 30.7 30.5	32.2 32.6 32.7 32.9 33.5 32.6 32.5 31.9 31.8 31.8	30.5 30.9 31.3 31.2 30.6 30.9 31.1 30.7 31.2 30.2	31.1 31.6 31.9 31.4 31.5 31.5 31.4 31.5	31.5 32.1 31.1 30.0 29.2 29.0 27.7 28.3 28.2 26.9	30.3 30.4 29.9 29.1 28.6 27.7 27.3 27.4 26.1 26.1	30.7 30.8 30.4 29.5 28.9 28.3 27.5 27.8 27.2 26.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14	26.3 26.9 27.9 28.6 29.2 29.3 29.5 30.2 30.5 30.6 30.1	JUNE  25.4 25.9 26.6 27.4 28.4  28.7 29.0 29.3 29.6  29.6 29.7	25.8 26.4 27.1 28.1 28.8 29.0 29.1 29.4 29.8 29.9 29.9	28.1 28.7 29.5 30.0 30.2 30.8 32.0 32.2 31.4 31.3 32.3 32.1 30.8 30.8	JULY 27.5 27.7 28.1 28.6 29.3 30.0 30.3 30.4 30.5 30.2 30.4 30.5 30.2	27.8 28.0 28.5 29.1 29.8 30.3 30.9 31.0 30.7 30.5 30.9 31.0 30.4 29.8	32.2 32.6 32.7 32.9 33.5 32.6 32.5 31.9 31.8 31.8 31.4 31.2	30.5 30.9 31.3 31.2 30.6 30.9 31.1 30.7 31.2 30.2	31.1 31.6 31.9 31.6 31.4 31.5 31.5 31.5 31.2 30.9 30.9 30.9	31.5 32.1 31.1 30.0 29.2 29.0 27.7 28.3 28.2 26.9 27.3 27.9 29.3 30.7	30.3 30.4 29.9 29.1 28.6 27.7 27.3 27.4 26.1 26.1 26.5 27.3 27.9	30.7 30.8 30.8 30.4 29.5 28.9 27.5 27.8 27.2 26.4 26.9 27.5 28.4 29.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	26.3 26.9 27.9 28.6 29.2 29.3 29.5 30.5 30.6 30.1 30.6 30.1	JUNE  25.4 25.9 26.6 27.4 28.4  28.7 29.0 29.3 29.6  29.6 29.7	25.8 26.4 27.1 28.1 28.8 29.0 29.1 29.8 29.9 29.9 30.0	28.1 28.7 29.5 30.0 30.2 30.8 32.0 31.4 31.3 32.1 30.8 30.8 30.3 29.9 28.0 28.6 29.1	JULY  27.5 27.7 28.1 28.6 29.3 30.0 30.3 30.4 30.5 30.2 30.4 30.5 27.4 27.0 27.7 28.5	27.8 28.0 28.5 29.1 29.8 30.3 30.9 31.0 30.7 30.5 30.9 31.0 29.1 27.7 27.6 28.3 29.2	32.2 32.6 32.7 32.9 33.5 32.6 32.5 31.8 31.8 31.8 31.4 31.2 30.8 29.9 29.5 29.4 28.3 30.0 30.7	AUGUST  30.5 30.9 31.3 31.2 30.6  30.9 31.1 30.7 31.2 30.2  30.3 29.9 29.5 28.6  27.8 27.5 28.0	31.1 31.6 31.9 31.6 31.4 31.5 31.5 31.5 31.2 30.9 30.9 30.9 29.6 29.1 28.8 27.8 28.9 29.3	31.5 32.1 31.1 30.0 29.2 29.0 27.7 28.3 28.2 26.9 27.3 27.9 29.3 30.7 29.0 28.6 28.5 29.2 28.6	SEPTEMB  30.3 30.4 29.9 29.1 28.6  27.7 27.3 27.4 26.1 26.5 27.3 27.9 28.3 28.6  27.9	30.7 30.8 30.8 29.5 28.9 28.3 27.5 27.8 27.2 26.4 26.9 27.5 28.8 29.0 28.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	26.3 26.9 27.9 28.6 29.2 29.3 30.5 30.6 30.1 30.6 30.6 30.1 30.6 30.6 30.8 30.8 30.8	JUNE  25.4 25.9 26.6 27.4 28.4  28.7 29.0 29.3 29.6  29.6 29.7 29.9 29.4 29.5 29.5	25.8 26.4 27.1 28.1 28.8 29.0 29.1 29.8 29.9 29.9 30.0   30.5 29.7 30.0 29.7	28.1 28.7 29.5 30.0 30.2 30.8 32.0 31.4 31.3 32.1 30.8 30.3 29.9 28.6 29.1 29.9 30.8 31.6 32.7 32.1	JULY  27.5 27.7 28.1 28.6 29.3 30.0 30.3 30.4 30.5 30.2 30.4 30.5 29.5 28.0 27.4 27.0 27.7 28.5 29.8 30.5 31.2 31.4 31.6	27.8 28.0 28.5 29.1 29.8 30.3 30.9 31.0 30.7 30.5 30.9 31.0 29.1 27.7 27.6 28.3 29.1 27.7 27.6 28.3 29.2 30.4	32.2 32.6 32.7 32.9 33.5 32.6 32.5 31.8 31.8 31.8 31.4 31.2 30.8 29.9 29.5 29.4 28.3 30.0 30.7 30.6 30.5 30.5 30.5	AUGUST  30.5 30.9 31.3 31.2 30.6  30.9 31.1 30.7 31.2 30.2  30.3 30.3 29.9 29.5 28.6  27.8 27.5 28.2 29.0 29.0	31.1 31.6 31.9 31.6 31.4 31.5 31.5 31.5 31.2 30.9 30.9 30.9 29.6 29.1 28.8 27.8 28.9 32.9 4 29.7 29.9 29.9	31.5 32.1 31.1 30.0 29.2 29.0 27.7 28.3 28.2 26.9 27.3 30.7 29.0 28.6 28.5 29.2 28.6 28.1	SEPTEMB  30.3 30.4 29.9 29.1 28.6  27.7 27.3 27.4 26.1 26.5 27.3 27.9 28.3 28.6  27.9 27.6 27.8 27.9 25.6 24.9 25.6	30.7 30.8 30.8 29.5 28.9 28.3 27.5 27.8 27.2 26.4 26.9 27.3 28.8 28.3 27.9 28.2 27.3

08067252 Trinity River at Wallisville, TX--Continued



SPECIFIC CONDUCTANCE (DOWNSTEAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

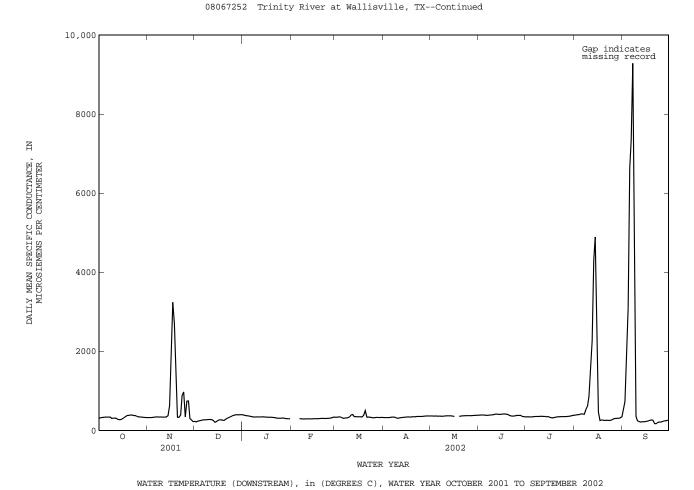
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	CEMBER			JANUARY	•
1	317	306	312	327	322	325	234	221	229	397	392	394
2	327	317	322	329	321	325	221	215	217	390	377	384
3	336	327	331	330	325	328	241	216	232	378	373	376
4	340	331	335	335	328	331	250	239	247	373	369	371
5	342	336	340	340	333	336	261	248	255	369	359	364
6	342	338	340	354	337	342	269	260	265	359	350	355
7	343	339	341	354	338	343	272	267	270	350	342	346
8	348	315	340	344	337	340	273	268	270	342	339	340
9	315	299	305	343	339	341	277	272	275	344	339	341
10	314	305	309	342	338	340	280	276	278	346	342	344
11	316	309	313	340	337	338	280	275	277	346	342	344
12	312	306	308	339	336	337	279	271	274	344	342	343
13	311	258	280	400	335	343	272	181	248	345	343	344
14	279	266	274	592	335	369	227	176	204	346	345	345
15	292	265	277	1360	335	631	241	215	227	347	336	340
16	320	278	298	3760	343	1650	266	236	253	339	335	337
17	342	319	330	4010	1880	3240	271	266	269	337	334	335
18	361	342	350	3010	2360	2690	273	265	271	337	333	335
19	403	361	380	2750	337	1610	265	255	259	338	328	334
20	388	382	384	339	332	335	260	254	257	331	327	330
21	393	388	390	334	331	332	299	260	285	334	322	326
22	395	381	392	547	331	386	321	299	309	325	312	317
23	381	376	378	1780	522	878	340	321	330	317	309	312
24	377	364	374	2600	408	972	354	340	347	314	307	310
25	364	345	358	408	327	344	377	354	365	314	308	310
26 27 28 29 30 31	348 346 342 340 337 331	341 339 337 329 329 326	343 343 340 335 331 328	1280 1680 318 279 250	328 318 277 250 208	742 747 303 265 224	392 401 400 399 399 400	373 392 395 395 397 397	384 397 398 397 398 397	317 322 324 299 301 299	312 314 297 295 291 291	313 315 304 297 296 293
MONTH	403	258	335	4010	208	670	401	176	293	397	291	335

# 08067252 Trinity River at Wallisville, TX--Continued

SPECIFIC CONDUCTANCE (DOWNSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SPE	CIFIC CO	NDUCTANCE	(DOWNSTR	EAM), in	US/CM @	25C, WATER	YEAR	OCTOBER	2001 TO SE	PTEMBER	2002
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY			MARCH		i	APRIL			MAY	
1				339	329	334	329	325	326	370	368	369
2				336	329	333	330	327	328	370	365	367
3				354	333	342	329	327	327	366	363	364
4 5				350 332	331 307	341 321	329 336	327 328	328 332	368 366	365 362	366 364
6	304	299	301	310	302	305	342	336	339	367	360	362
7 8	299 296	292 292	294 294	316 321	308 313	312 317	342 340	339 329	341 333	369 362	360 358	362 360
9	292	290	291	331	319	324	329	308	316	378	360	362
10	293	291	292	366	331	342	312	307	309	370	363	366
11	295	293	294	827	340	389	322	312	318	372	366	369
12	296	294	295	827	340	402	328	322	325	373	367	370
13	296	295	295	352	347	349	331	328	330	373	371	372
14 15	297 299	295 297	296 298	352 352	348 346	350 349	335 339	331 335	333 337	376 369	369 360	372 364
1.0	200	200	298	251	244	2.47	244	220	240	260	254	256
16 17	299 298	298 297	298	351 351	344 346	347 348	344 345	339 340	342 343	360 	354	356 
18	301	297	299	348	342	344	342	336	338			
19	304	300	301	4470	335	382	348	342	345	361	355	358
20	308	304	306	5360	324	501	352	346	348	368	356	363
21	309	299	307	339	328	334	351	346	348	375	368	372
22	305	298	302	341	338	339	367	349	353	375	370	372
23 24	308 306	302 303	305 305	343 330	330 319	338 325	371 359	351 350	355 353	375 377	372 373	374 375
25	314	305	310	323	319	320	357	354	356	377	373	375
	210	211			210	202	260	255	257	275	270	
26 27	319 336	311 319	314 327	328 330	319 328	323 329	360 366	355 360	357 362	375 376	372 372	373 375
28	340	333	337	332	327	330	367	365	366	402	375	379
29				331	323	328	369	367	368	386	379	382
30				332	327	331	369	367	368	386	381	384
31				330	327	328				390	384	386
MONTH				5360	302	344	371	307	341			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN JGUST	MEAN	MAX	MIN SEPTEMB	
DAY		JUNE			JULY		A	JGUST			SEPTEMB	ER
DAY 1 2	392 398	JUNE 385 385	387 390	351 354	JULY 333 339	341 346	AI 393 399	JGUST 385 391	387 394	1010 1640	SEPTEMB 325 331	ER 522 730
DAY  1 2 3	392 398 409	JUNE 385 385 387	387 390 391	351 354 345	JULY 333 339 340	341 346 343	393 399 401	385 391 398	387 394 400	1010 1640 3730	325 331 335	ER 522 730 1700
DAY  1 2 3 4	392 398 409 396	JUNE 385 385 387 389	387 390 391 392	351 354 345 346	JULY 333 339 340 342	341 346 343 344	393 399 401 407	385 391 398 396	387 394 400 402	1010 1640 3730 7630	325 331 335 868	522 730 1700 3100
DAY  1 2 3 4 5	392 398 409 396 394	JUNE 385 385 387 389 373	387 390 391 392 384	351 354 345 346 349	JULY 333 339 340 342 343	341 346 343 344 347	393 399 401 407 452	385 391 398 396 403	387 394 400 402 418	1010 1640 3730 7630 7790	325 331 335 868 5830	522 730 1700 3100 6650
DAY  1 2 3 4 5	392 398 409 396 394	JUNE 385 385 387 389 373	387 390 391 392 384	351 354 345 346 349 351	JULY 333 339 340 342 343	341 346 343 344 347 349	393 399 401 407 452	385 391 398 396 403	387 394 400 402 418	1010 1640 3730 7630 7790	325 331 335 868 5830 6580	522 730 1700 3100 6650 7340
DAY  1 2 3 4 5 6 7	392 398 409 396 394 389 389	JUNE  385 385 387 389 373 376 384	387 390 391 392 384 384 386	351 354 345 346 349 351 354	JULY  333 339 340 342 343  347 351	341 346 343 344 347 349 353	393 399 401 407 452 420 430	385 391 398 396 403 410 367	387 394 400 402 418 415 413	1010 1640 3730 7630 7790 8540 9620	325 331 335 868 5830 6580 8540	522 730 1700 3100 6650 7340 9280
DAY  1 2 3 4 5	392 398 409 396 394 389 389 394 402	JUNE 385 385 387 389 373	387 390 391 392 384	351 354 345 346 349 351	JULY 333 339 340 342 343	341 346 343 344 347 349	393 399 401 407 452	385 391 398 396 403	387 394 400 402 418	1010 1640 3730 7630 7790	325 331 335 868 5830 6580	522 730 1700 3100 6650 7340
DAY  1 2 3 4 5 6 7 8	392 398 409 396 394 389 389 389	JUNE  385 385 387 389 373 376 384 387	387 390 391 392 384 384 386 391	351 354 345 346 349 351 354 355	JULY  333 339 340 342 343  347 351 352	341 346 343 344 347 349 353 354	393 399 401 407 452 420 430 750	385 391 398 396 403 410 367 419	387 394 400 402 418 415 413 530	1010 1640 3730 7630 7790 8540 9620 9590	325 331 335 868 5830 6580 8540 666	522 730 1700 3100 6650 7340 9280 5660
DAY  1 2 3 4 5 6 7 8 9	392 398 409 396 394 389 389 394 402	JUNE  385 385 387 389 373  376 384 387 391	387 390 391 392 384 384 386 391 396	351 354 345 346 349 351 354 355 361	JULY  333 339 340 342 343  347 351 352 353	341 346 343 344 347 349 353 354 355	393 399 401 407 452 420 430 750 885	385 391 398 396 403 410 367 419 449	387 394 400 402 418 415 413 530 612	1010 1640 3730 7630 7790 8540 9620 9590 666	325 331 335 868 5830 6580 8540 666 243	522 730 1700 3100 6650 7340 9280 5660 356
DAY  1 2 3 4 5 6 7 8 9 10 11 12	392 398 409 396 394 389 389 394 402 403	JUNE  385 385 387 389 373  376 384 387 391 389  402 407	387 390 391 392 384 386 391 396 398 411 416	351 354 345 346 349 351 354 355 361 361 362 360	JULY  333 339 340 342 343  347 351 352 353 351	341 346 343 344 347 349 353 354 355 357	393 399 401 407 452 420 430 750 885 1770 2560 2910	385 391 398 396 403 410 367 419 449 492	387 394 400 402 418 415 413 530 612 860	1010 1640 3730 7630 7790 8540 9620 9590 666 253	325 331 335 868 5830 6580 8540 666 243 242	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13	392 398 409 396 394 389 389 394 402 403 415 419 411	JUNE  385 385 387 389 373  376 384 387 391 389 402 407 403	387 390 391 392 384 384 386 391 396 398 411 416 407	351 354 345 346 349 351 354 355 361 361 362 360 363	JULY  333 339 340 342 343 347 351 352 353 351 353 352 346	341 346 343 344 347 353 354 355 357 359 355 353	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160	385 391 398 396 403 410 367 419 449 492 1050 1680 2910	387 394 400 402 418 415 413 530 612 860 1670 2270 4300	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234	325 331 335 868 5830 6580 8540 666 243 242 203 204 216	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14	392 398 409 396 394 389 389 394 402 403 415 411 408	JUNE 385 385 387 389 373 376 384 387 391 389 402 407 403 404	387 390 391 392 384 386 391 396 398 411 416 407 406	351 354 345 346 349 351 354 355 361 361 362 360 363 355	JULY  333 339 340 342 343 347 351 352 353 351 353 352 346 345	341 346 343 344 347 349 353 354 355 357 359 355 353 348	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250	385 391 398 396 403 410 367 419 449 492 1050 1680 2910 4160	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230	325 331 335 868 5830 6580 8540 666 243 242 203 204 217	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421	JUNE  385 385 387 389 373  376 384 387 391 389  402 407 403 404 407	387 390 391 392 384 386 391 396 398 411 416 407 406 412	351 354 346 349 351 354 355 361 361 362 360 363 355 358	JULY  333 339 340 342 343 347 351 352 353 351 353 352 346 345 340	341 346 343 344 347 353 354 355 357 359 355 353 348 349	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660	385 391 398 396 403 410 367 419 449 492 1050 1680 2910 4160 783	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230 237	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421	JUNE  385 387 389 373 376 384 387 391 389 402 407 403 404 407	387 390 391 392 384 386 391 396 398 411 416 407 406 412	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 352 346 345 340 326	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660	385 391 398 396 403 410 367 419 492 1050 1680 2910 4160 783	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230 237	325 331 335 868 5830 6580 8540 666 243 242 203 204 217 211	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358	JULY  333 339 340 342 343 347 351 352 353 351  353 352 346 345 340  326 315	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660	385 391 398 396 403 410 419 449 492 1050 1680 2910 4160 783 264 221	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 233 237	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416 408	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 339	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 351 353 352 346 345 340 326 315 313 325	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332 322 319 332	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268	385 391 398 403 410 367 419 449 492 1050 1680 2910 4160 783 264 221 247 246	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230 237 239 251 269 273	325 331 335 868 5830 6580 8540 6666 243 242 203 204 217 211 228 237 251	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 223 227 233 242 257
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416	JUNE  385 385 387 389 373  376 384 387 391 389  402 407 403 404 407 412 414 406	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358	JULY  333 339 340 342 343 347 351 352 353 351 353 352 346 345 340 326 315 313	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332 322 319	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282	385 391 398 396 403 410 367 419 449 492 1050 1680 2910 4160 783 264 221 247	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230 237	325 331 335 868 5830 6580 8540 6666 243 242 203 204 216 217 2111 228 237 251	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416 408	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 339	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 351 353 352 346 345 340 326 315 313 325	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332 322 319 332	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268	385 391 398 403 410 367 419 449 492 1050 1680 2910 4160 783 264 221 247 246	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 230 237 239 251 269 273	325 331 335 868 5830 6580 8540 6666 243 242 203 204 217 211 228 237 251	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 223 227 233 242 257
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	392 398 409 396 394 389 389 394 402 403 415 419 421 422 424 416 408 404 376 367	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407  412 414 406 403 375	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358 341 333 326 339 343	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 352 346 345 340 326 315 313 325 338 341 346	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 32 32 319 32 340 345 347	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268	385 391 396 403 410 367 419 492 1050 1680 783 264 221 247 245 245	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 233 237 239 251 269 273 292	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211 228 237 251 262 2181	522 730 1700 3100 6650 7340 9280 5660 247 223 212 220 223 227 233 242 259 267 256
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416 408 404	JUNE  385 385 387 389 373  376 384 387 391 389  402 407 403 404 407  412 414 406 403 375  363 362 363	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385 372 364 366	351 354 345 346 349 351 354 355 361 362 360 363 355 358 341 333 326 339 343	JULY  333 339 340 342 343 347 351 352 353 351  353 352 346 345 340  326 315 313 325 338 341 346 348	341 346 343 344 347 349 353 354 355 357 359 355 353 349 322 319 332 340 345 347 350	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268	385 391 398 403 410 367 419 492 1050 1680 2910 4160 783 264 221 247 246 245 245 244 243	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 3430 468 250 267 262 254 256 259 253	1010 1640 3730 7630 7790 8540 9620 9590 6666 253 220 234 234 230 237 239 251 269 273 292	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 221 228 237 251 262 181	522 7330 17000 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259 267 256
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	392 398 409 396 394 389 389 394 402 403 415 419 421 422 424 416 408 404 376 367	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407  412 414 406 403 375	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358 341 333 326 339 343	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 352 346 345 340 326 315 313 325 338 341 346	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 32 32 319 32 340 345 347	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268	385 391 396 403 410 367 419 492 1050 1680 783 264 221 247 245 245	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 233 237 239 251 269 273 292	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211 228 237 251 262 2181	522 730 1700 3100 6650 7340 9280 5660 247 223 212 220 223 227 233 242 259 267 256
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416 408 404 376 367 368 374 422	JUNE  385 385 387 389 373 376 384 387 391 389  402 407 403 404 407 412 414 406 403 375 363 368 371	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385 372 364 366 371 382	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358 341 333 326 339 343 347 350 352 351 354	JULY  333 339 340 342 343 347 351 352 353 351  353 351  326 345 340  326 315 313 325 338 341 346 348 348 348	341 346 343 344 347 349 353 354 355 357 359 355 353 349 332 349 349 351	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268 264 269 281	385 391 398 403 410 367 419 492 1050 1680 2910 4160 783 264 221 247 246 245 245 242 243 251 258	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9550 666 253 220 234 230 237 237 249 273 292 273 292 2181 193 218	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211 228 237 251 262 181 164 164 193 207 205	522 7330 17000 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259 267 256 171 174 203 212 212
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	392 398 409 396 394 389 389 402 403 415 419 411 408 421 422 424 416 408 404 376 367 368 374	JUNE  385 387 389 373 376 384 387 391 389 402 407 403 404 407 412 414 406 403 375 363 362 363 368 371	387 390 391 392 384 384 386 391 396 398 411 416 407 406 412 419 411 407 385 372 364 363 371 382	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 339 343 347 350 351 354 354	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 352 346 345 340 326 315 313 325 338 341 346 348 348 348	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332 340 345 347 350 349 351 351 352	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268 269	385 391 396 403 410 367 449 492 1050 1680 783 264 221 247 246 245 244 243 258 274	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 237 239 251 269 273 292	325 331 335 868 5830 6580 8540 6666 243 242 203 204 216 217 211 228 237 251 262 181 164 164 193 207 205	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 256 171 174 203 212 225 227 2267 256
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	392 398 409 396 394 389 389 394 402 403 415 419 411 408 421 422 424 416 408 376 367 368 374 422 403	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407 412 414 406 403 375 363 368 371 369 368 347	387 390 391 392 384 386 398 411 416 407 406 412 416 419 411 407 385 372 364 366 371 382 378 382 378	351 354 345 346 349 351 354 355 361 361 362 360 363 355 358 341 333 326 339 343 347 350 352 351 354 354 354 355 356 356 367 367 367 367 367 367 367 367 367 36	JULY  333 339 340 342 343 347 351 352 353 351  353 351  326 345 340  326 315 313 325 338 341 346 348 348 348 350 350 355	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 332 340 349 351 340 349 351 351 351 351 351 351 351 351 351 351	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268 264 269 281	385 391 398 403 410 367 419 492 1050 1680 2910 4160 783 264 221 247 245 245 245 245 251 258 274 298 297	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9590 666 253 220 234 4 2330 237 292 273 292 218 193 210 218 218 218	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 2211 228 237 251 262 181 164 164 193 207 205	522 7330 17000 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259 267 27 256 171 174 203 212 212
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	392 398 409 396 394 389 389 402 403 415 419 411 408 421 422 424 416 408 404 376 367 368 374 422 422 424 426 427 427 428 429 429 429 429 429 429 429 429 429 429	JUNE  385 387 389 373 376 384 387 391 389 402 407 403 404 407 412 414 406 403 375 363 362 363 368 371 369 368 371	387 390 391 392 384 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385 372 364 366 371 382 378 382 363 378 382 363 378	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 339 343 347 350 351 354 354 359 361 361 361 361 361 361 361 361 361 361	JULY  333 339 340 342 343 347 351 352 353 351 352 346 345 340 326 315 313 325 338 341 346 348 348 348 350 350 355	341 346 343 344 347 349 353 355 357 359 355 353 348 349 32 32 319 332 340 345 347 351 352 354 355 357	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268 264 269 281	385 391 396 403 410 367 449 492 1050 1680 783 264 221 245 245 245 244 243 251 258 274 298 297 303	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 237 239 251 269 273 292 181 193 210 218 218	325 331 335 868 5830 6580 8540 6666 243 242 203 204 216 217 211 228 237 251 262 181 164 164 193 207 205	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259 267 256 171 174 203 212 220 221 221 222 222 223 227 225 227 226 227 227 228 229 229 229 229 229 229 229 229 229
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	392 398 409 396 394 402 403 415 419 411 408 421 422 424 416 367 368 374 422 424 416 408 404 376 367 368 374 374 375 374 402 403	JUNE  385 387 389 373 376 384 387 391 389  402 407 403 404 407  412 414 406 403 375  363 362 363 368 371  369 368 347 342	387 390 391 392 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385 372 364 366 371 382 378 382 361 353 347	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 343 347 350 352 351 354 354 359 360 371 380	JULY  333 339 340 342 343 347 351 352 353 351 353 351 353 352 346 345 340 326 315 313 325 338 341 346 348 348 348 348 348 350 355 357 370	341 346 343 344 347 349 353 354 355 357 359 355 353 348 349 322 319 322 319 340 345 347 350 349 351 351 352 354 357	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 268 264 269 281 305 309 313 317 325	385 391 396 403 410 367 419 492 1050 1680 783 264 221 247 245 245 244 243 225 247 298 297 303 312	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9590 666 253 220 234 230 237 251 269 273 292 181 193 210 218 218 228 248 253	325 331 335 868 5830 6580 8540 666 243 242 203 204 216 217 211 228 237 251 164 193 205 211 225 225 225 225 226 221 227 221 228 237 242 243 243 244 245 247 247 247 247 247 247 247 247 247 247	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 256 171 174 203 212 212 220 223 227
DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	392 398 409 396 394 389 389 402 403 415 419 411 408 421 422 424 416 408 404 376 367 368 374 422 422 424 426 427 427 428 429 429 429 429 429 429 429 429 429 429	JUNE  385 387 389 373 376 384 387 391 389 402 407 403 404 407 412 414 406 403 375 363 362 363 368 371 369 368 371	387 390 391 392 384 384 386 391 396 398 411 416 407 406 412 416 419 411 407 385 372 364 366 371 382 378 382 363 378 382 363 378	351 354 345 346 349 351 355 361 361 362 360 363 355 358 341 333 326 339 343 347 350 351 354 354 359 361 361 361 361 361 361 361 361 361 361	JULY  333 339 340 342 343 347 351 352 353 351 352 346 345 340 326 315 313 325 338 341 346 348 348 348 350 350 355	341 346 343 344 347 349 353 355 357 359 355 353 348 349 32 32 319 332 340 345 347 351 352 354 355 357	393 399 401 407 452 420 430 750 885 1770 2560 2910 5160 5250 5660 787 265 282 268 260 260 268 264 269 281	385 391 396 403 410 367 449 492 1050 1680 783 264 221 245 245 245 244 243 251 258 274 298 297 303	387 394 400 402 418 415 413 530 612 860 1670 2270 4300 4890 3430 468 250 267 262 254 256 259 253 258 275	1010 1640 3730 7630 7790 8540 9620 9590 666 253 250 220 234 237 239 251 269 273 292 181 193 210 218 218	325 331 335 868 5830 6580 8540 6666 243 242 203 204 216 217 211 228 237 251 262 181 164 164 193 207 205	522 730 1700 3100 6650 7340 9280 5660 356 247 223 212 220 223 227 233 242 259 267 256 171 174 203 212 220 221 221 222 222 223 227 225 227 226 227 227 228 229 229 229 229 229 229 229 229 229

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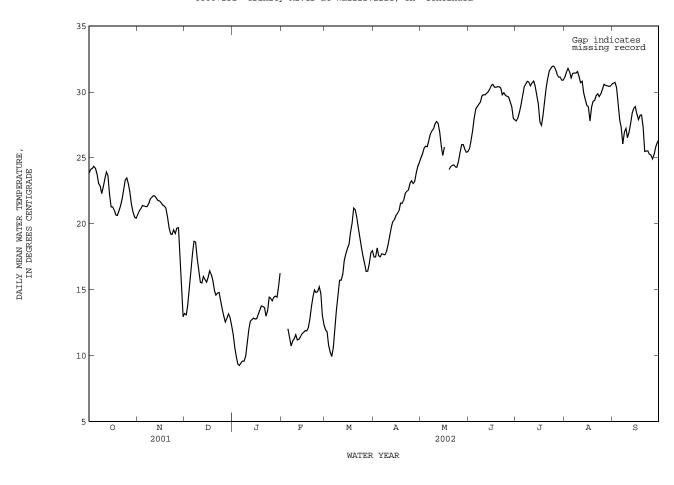
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1	24.4	23.4	23.8	21.2	20.3	20.7	13.4	12.9	13.2	12.0	11.3	11.6
2	24.8	23.6	24.1	21.2	20.8	21.0	13.3	13.0	13.1	10.9	10.3	10.6
3	24.7	23.8	24.2	21.4	20.8	21.1	14.5	13.1	13.9	10.3	9.6	9.9
4	24.5	24.2	24.3	21.8	20.9	21.4	15.8	14.5	15.1	9.6	9.2	9.4
5	24.4	24.1	24.2	21.7	20.9	21.3	17.2	15.8	16.4	9.4	9.1	9.2
6 7 8 9 10	24.1 23.4 23.3 22.6 23.5	23.2 22.7 22.2 22.1 22.5	23.8 23.1 22.9 22.3 22.8	21.5 21.6 22.0 22.3 22.4	21.0 20.9 21.1 21.4 21.5	21.3 21.3 21.5 21.9 22.0	18.4 19.0 19.0 18.0 16.8	17.2 18.4 18.0 16.8 16.0	17.8 18.7 18.6 17.4 16.5	9.7 9.8 9.8 10.4 11.6	9.2 9.4 9.3 9.6 10.4	9.4 9.6 9.6 9.9
11	23.6	23.2	23.4	22.6	21.8	22.1	16.0	15.3	15.5	12.3	11.6	12.0
12	24.5	23.5	23.9	22.3	21.9	22.1	15.6	15.4	15.5	12.9	12.3	12.6
13	24.5	23.1	23.7	22.1	21.8	21.9	16.6	15.4	16.0	12.9	12.5	12.7
14	23.1	21.5	22.2	21.9	21.6	21.8	16.2	15.6	15.8	13.0	12.7	12.8
15	21.7	20.9	21.3	21.9	21.6	21.7	15.7	15.5	15.6	12.9	12.5	12.8
16	21.5	21.0	21.3	21.8	21.4	21.6	16.3	15.5	15.9	13.1	12.4	12.8
17	21.3	20.8	21.0	21.6	21.2	21.4	16.7	16.3	16.4	13.4	12.9	13.1
18	20.9	20.4	20.7	21.6	21.0	21.3	16.4	16.0	16.2	13.7	13.2	13.4
19	20.9	20.3	20.6	21.5	20.6	21.2	16.0	15.3	15.7	14.0	13.5	13.8
20	21.3	20.7	21.0	21.2	20.1	20.5	15.3	14.6	14.9	14.0	13.5	13.7
21	21.7	21.1	21.4	20.1	19.3	19.7	14.8	14.4	14.6	13.8	13.3	13.6
22	22.1	21.5	21.9	19.5	19.0	19.2	14.9	14.5	14.7	13.3	12.8	13.0
23	23.0	22.1	22.6	19.5	18.4	19.2	14.9	14.5	14.8	13.9	13.0	13.4
24	23.7	23.0	23.3	19.9	19.2	19.5	14.5	13.8	14.1	14.8	13.9	14.4
25	23.7	23.2	23.5	19.7	19.0	19.3	13.8	13.3	13.6	14.5	14.2	14.3
26 27 28 29 30 31	23.3 22.8 21.9 21.2 20.7 20.7	22.6 21.9 21.1 20.6 20.3 20.1	23.0 22.4 21.5 20.9 20.5 20.4	20.0 20.2 18.8 16.9 13.6	19.2 18.8 16.9 13.6 12.8	19.7 19.7 18.1 15.6 12.9	13.3 12.7 13.1 13.4 13.2 12.6	12.7 12.4 12.5 13.0 12.6 12.0	13.0 12.5 12.8 13.2 12.9 12.3	14.5 14.7 14.8 14.8 15.8 16.6	14.0 14.2 14.3 14.2 14.8 15.8	14.1 14.4 14.5 14.4 15.3 16.2
MONTH	24.8	20.1	22.5	22.6	12.8	20.4	19.0	12.0	15.1	16.6	9.1	12.5

08067252 Trinity River at Wallisville, TX--Continued

WATER TEMPERATURE (DOWNSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	   12.4	14.3  12.4 11.7	   12.0	12.0	11.9 11.3 10.6 10.0 9.6	12.0 11.8 10.8 10.3 9.9	17.8 18.1 18.5 17.8 17.9	17.2 16.9 17.8 17.2 17.1	17.5 17.5 18.2 17.6 17.5	25.5 25.7 26.1 26.0 26.3		25.0 25.3 25.7 25.9 25.8
6 7 8 9 10	11.7 11.1 11.4 11.6 11.8	11.1 10.4 10.9 10.9	11.4 10.7 11.1 11.2 11.6	11.4 13.2 14.3 15.0 16.7	10.1 11.2 12.8 13.8 15.0	10.6 12.1 13.4 14.5 15.7	18.0 17.8 17.8 18.2 18.8	17.5 17.5 17.5 17.6 18.1	17.7 17.7 17.6 17.9 18.4	26.7 27.2 27.3 27.6 27.9	25.9 26.5 26.8 26.8 27.3	26.3 26.8 27.0 27.2 27.6
11 12 13 14 15	11.4 11.5 11.7 11.9 12.0	11.0 11.0 11.1 11.4 11.5	11.2 11.2 11.4 11.6 11.8	16.2 16.9 17.9 18.0 18.6	15.4 15.4 16.6 17.5 17.7	15.7 16.2 17.2 17.7 18.1	19.6 20.2 20.5 20.6 20.8	18.7 19.4 19.9 20.0 20.4	17.9 18.4 19.1 19.7 20.1 20.3 20.6	28.1 27.8 27.6 26.4 25.4	27.6 27.4 26.4 25.4 24.9	27.6 26.9 25.9
16 17 18 19 20	12.1 12.2 12.3 13.3 14.2	11.7 11.6 11.9 12.3 13.3	11.9 11.9 12.1 12.8 13.7	18.8 19.9 20.8 22.2 22.2	18.2 18.7 19.4 20.6 20.5	18.4 19.3 20.0 21.2 21.1	20.9 21.4 22.0 21.9 22.2	20.7 20.7 21.2 21.3 21.4	20.8 21.0 21.6 21.5 21.8	26.3  24.4 24.8	25.3  23.8 23.9	25.8  24.1 24.3
21 22 23 24 25	15.0 15.2 15.2 15.1 15.5	14.1 14.8 14.5 14.4 14.8		20.9 20.1 19.2 18.8 17.6			22.6 22.8 22.9 23.5 23.5		22.3 22.5 22.6 23.1 23.3	24.8 24.8 24.5 24.5 25.3	24.0 24.2 24.1 24.0 24.3	24.4 24.5 24.3 24.3 24.7
26 27 28 29 30 31	15.4 13.7 12.7 	13.7 12.7 12.1 	14.7 13.1 12.4 	17.4 16.7 16.7 17.5 18.2 18.1	16.7 16.1 16.0 16.5 17.5	17.0 16.4 16.4 17.0 17.8 18.0	23.4 23.6 24.4 24.7 25.0	22.8 22.7 23.3 24.1 24.4	23.1 23.2 23.8 24.4 24.7	26.0 26.4 26.2 25.9 25.8 25.8	24.9 25.7 25.8 25.5 25.1 25.2	25.4 26.0 26.0 25.7 25.4 25.5
MONTH				22.2	9.6	16.2	25.0	16.9	20.6			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER
DAY  1 2 3 4 5	MAX 26.1 26.8 27.8 28.6 29.0		25.7 26.3 27.0 28.0 28.7	28.1 28.6 29.2 29.6 30.2	JULY 27.6 27.7 28.2 28.6 29.3			AUGUST			30.4 30.4 29.6 27.6	
1 2 3 4	26.1 26.8 27.8 28.6	JUNE 25.3 25.8 26.5 27.3 28.3	25.7 26.3 27.0 28.0 28.7	28.1 28.6 29.2 29.6	JULY 27.6 27.7 28.2 28.6 29.3	27.8 28.0 28.5 29.0 29.7		30.5 31.0 31.4 31.2 30.5	31.1 31.5 31.8 31.5 31.1	31.0 31.2 31.2 29.8	30.4 30.4 29.6 27.6 27.6	30.7 30.7 30.3 29.2 27.8
1 2 3 4 5 6 7 8 9 10	26.1 26.8 27.8 28.6 29.0 29.1 29.4 30.1 30.5	JUNE  25.3 25.8 26.5 27.3 28.3  28.6 28.9 28.9 29.2 29.4  29.5 29.6	25.7 26.3 27.0 28.0 28.7 28.9 29.1 29.2 29.7 29.8 29.8 29.9	28.1 28.6 29.2 29.6 30.2 31.0 31.2 31.0 30.9	JULY  27.6 27.7 28.2 28.6 29.3  30.0 30.3 30.5 30.5 30.5 30.5	27.8 28.0 28.5 29.0 29.7 30.4 30.6 30.8 30.8 30.5	32.1 32.6 32.4 32.1 31.9	30.5 31.0 31.4 31.2 30.5 30.9 31.2 30.5 30.1 29.9 30.1	31.1 31.5 31.8 31.5 31.1 31.4 31.4 31.6 31.2 30.7 30.8	31.0 31.2 31.2 29.8 28.0 27.7 26.4 28.3 26.9 27.4 28.0	30.4 30.4 29.6 27.6 27.6 25.9 25.9 26.1 26.1 26.6 27.4	30.7 30.7 30.3 29.2 27.8 27.3 26.1 26.9 27.2 26.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	26.1 26.8 27.8 28.6 29.0 29.1 29.4 30.1 30.5 30.1 30.5 31.1	JUNE  25.3 25.8 26.5 27.3 28.3 28.6 28.9 29.2 29.4 29.5 29.6 29.5 29.8	25.7 26.3 27.0 28.0 28.7 28.9 29.1 29.2 29.7 29.8 29.8 29.8 29.9 30.0 30.2	28.1 28.6 29.2 29.6 30.2 30.8 31.0 31.9 31.7 30.9	JULY  27.6 27.7 28.2 28.6 29.3 30.0 30.3 30.5 30.5 30.5 30.2 30.4 30.5 30.0 29.6	27.8 28.0 28.5 29.0 29.7 30.4 30.6 30.8 30.5 30.7 30.8 30.5	32.1 32.6 32.4 32.1 31.9 32.1 31.9 31.9 31.9 31.9 31.9	30.5 31.0 31.2 30.5 30.5 30.9 31.2 30.5 30.1 29.9 30.1 29.9 30.1 29.9	31.1 31.5 31.8 31.5 31.1 31.4 31.4 31.6 31.2 30.7 30.8 29.9 29.5	31.0 31.2 31.2 29.8 28.0 27.7 26.4 28.3 26.9 27.4 28.0 28.9 29.4	30.4 30.4 29.6 27.6 27.6 25.9 25.9 26.1 26.1 26.6 27.4 27.9 28.3	30.7 30.7 30.3 29.2 27.8 27.3 26.1 26.9 27.2 26.5 26.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	26.1 26.8 27.8 28.6 29.0 29.1 29.4 30.1 30.5 30.1 31.1 31.1 31.1 31.2 30.9 31.3	JUNE  25.3 25.8 26.5 27.3 28.3  28.6 28.9 29.2 29.4  29.5 29.6 29.5 29.8 30.2  30.1 30.2 30.1	25.7 26.3 27.0 28.0 28.7 28.9 29.1 29.7 29.8 29.8 29.9 30.0 30.2 30.5 30.6 30.4 30.4	28.1 28.6 29.2 29.6 30.2 30.8 31.0 30.9 31.2 31.7 30.8 30.1 29.9 28.1 27.9 28.7 29.9	JULY  27.6 27.7 28.2 28.6 29.3 30.0 30.3 30.5 30.5 30.5 30.2 29.6 28.1 27.4 27.1 27.7 28.6	27.8 28.0 28.5 29.0 29.7 30.4 30.6 30.8 30.5 30.7 30.8 30.5 29.8 29.1 27.7 27.5 28.2 29.2	32.1 32.6 32.4 32.1 31.9 32.1 31.9 31.9 31.9 31.9 31.9 32.9 31.9 31.0 31.6 30.4 29.7 29.4	30.5 31.0 31.4 31.2 30.5 30.9 31.2 30.5 30.5 31.1 30.1 29.9 30.1 29.9 29.4 28.6 27.8 27.6 28.3 29.1	31.1 31.5 31.8 31.5 31.1 31.4 31.4 31.6 31.2 30.7 30.8 29.9 29.5 29.0 28.9 27.8 28.8 29.3	31.0 31.2 31.2 29.8 28.0 27.7 26.4 28.3 26.9 27.4 28.0 29.4 29.1 28.7 28.5 28.9 29.4	30.4 30.4 29.6 27.6 27.6 26.4 25.9 26.1 26.1 26.6 27.4 27.9 28.3 28.7 28.0 27.6 27.6	30.7 30.7 30.7 30.3 29.2 27.8 27.3 26.1 26.9 27.2 26.5 26.9 27.6 28.4 28.8 28.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	26.1 26.8 27.8 28.6 29.0 29.1 29.4 30.1 30.5 30.1 31.1 31.1 31.1 31.2 30.9 31.3 30.7	JUNE  25.3 25.8 26.5 27.3 28.3  28.6 28.9 29.2 29.4  29.5 29.6 29.5 29.8 30.2  30.1 30.2 30.1 30.2 29.9 29.4 29.5	25.7 26.3 27.0 28.0 28.7 29.1 29.7 29.8 29.8 29.9 30.0 30.2 30.5 30.6 30.4 30.4 30.4 30.4 30.4 30.4 30.4	28.1 28.6 29.2 29.6 30.2 30.8 31.0 30.9 31.2 31.7 30.8 30.1 29.9 28.1 27.9 28.7 29.9 30.7	JULY  27.6 27.7 28.2 28.6 29.3 30.0 30.3 30.5 30.5 30.5 30.2 30.4 30.5 30.0 29.6 28.1 27.4 27.1 27.7 28.6 29.9 30.6 31.2 31.4 31.6	27.8 28.0 28.5 29.0 29.7 30.4 30.8 30.8 30.5 30.7 30.8 30.5 29.8 29.1 27.7 27.5 28.2 29.2 30.3 31.6 31.6 31.8 31.9	32.1 32.6 32.4 32.1 31.9 32.1 31.9 31.9 31.9 31.9 31.6 30.4 29.7 29.4 28.3 29.5 30.0 30.1	30.5 31.0 31.4 31.2 30.5 30.9 31.2 30.5 30.5 30.5 30.9 31.1 30.1 29.9 30.1 29.9 30.5 29.4 28.6 27.8 27.8 27.8 29.1 29.1	31.1 31.5 31.8 31.5 31.1 31.4 31.4 31.6 31.2 30.7 30.8 29.9 29.5 29.0 28.9 27.8 28.8 29.3 29.4 29.7 29.9	31.0 31.2 29.8 28.0 27.7 26.4 28.3 28.3 26.9 27.4 28.0 29.4 29.1 28.7 28.5 28.6 29.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6 20	SEPTEMBE  30.4 30.4 29.6 27.6 27.6 26.4 25.9 26.1 26.1 26.6 27.4 27.9 28.3 28.7 28.0 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	30.7 30.7 30.7 30.3 29.2 27.8 27.3 26.1 26.9 27.2 26.5 28.4 28.8 28.9 27.9 28.3 27.3 25.5 25.5 25.5 25.5

08067252 Trinity River at Wallisville, TX--Continued



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The U.S. Geological Survey collects limited streamflow data at sites other than continuous stream-gaging stations because the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage of those events. The data collected for special reasons are called measurements at miscellaneous sites.

Streamflow data collected at partial-record stations where water-quality data other than observations of water temperature are not obtained are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations; the second is a table of annual maximum stage and (or) discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flows are given in a third table. Discharge measurements and water-quality data collected at partial-record stations are presented in downstream order in the section of this report entitled "Gaging-station records."

#### Crest-stage partial-record stations

The following table contains annual maximum stage and (or) discharge at partial-record stations operated primarily for the purpose of defining the flooding characteristics of the streams. At stations where discharge is given, or is footnoted "to be determined", a stage-discharge relation has been, or will be, defined by discharge measurements obtained by current meter or by indirect procedures. Water-stage recorders are located at these flood-hydrograph stations to facilitate complete hydrograph definition. At stations where only the maximum stage is given (discharge column is dashed), the data are generally collected for use in stage-frequency studies of flood-profile definition. Gages at these stations usually consist of a device that will register the peak stage occurring between inspection of the gage. The years used in the column "Period of record" identify the years in which the annual maximum has been determined.

Annual maximum stage and (or) discharge during water year 2002

			Water Ye	ear 2001 ma	ximum	Period of	f record ma	ximum
Station name and number	Location	Period of record	Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
	Trinity Riv	er Basin						
Big Fossil Creek Haltom City, TX 08048800	Lat 32°48'26", long 97°14'54", Tarrant County, at center of channel at downstream side of downstream bridge on State Highway 183, 2.0 mi upstream from Little Fossil Creek, 3.5 mi upstream from mouth, and 6.0 mi northeast of Tarrant County Courthouse in Fort Worth. Drainage area is 52.8 mi <sup>2</sup> .	1960-73 th 1974-84 ф 1985- 2002	04-15-02	12.13	<u>a</u> /	09-07-62	26.90 <u>b</u> /	27,000

- The Operated as a continuous-record station.
- φ Operated as an unpublished stage-only station.
- a/ Gage Height only, discharge measurement not available.
- $\underline{b}$ / Peak of record prior to channel rectification and widening in 1964-66. Maximum stage since rectification: 13.76 ft on 05-03-90.

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near Weatherford	58	Range Creek near Collinsville	120
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Denton Creek, near Grapevine	154	near Dawson	25
near Justin	136	Rowlett Creek near Sachse	21
Fools Mayatsia December shows Fort Worth	50		
Eagle Mountain Reservoir above Fort Worth	50	Sister Grove Creek near Blue Ridge	200
East Fork Trinity River, at McKinney	204	·	
near Crandall	216	Tehuacana Creek near Streetman	29
near Forney	214	Timber Creek near Collinsville	113
Elizabeth Creek at State Highway 114 near Roanoke	140	Trinity River, at Cedar Crest Boulevard, Dallas	16
Elm Fork Trinity River, at Frasier Dam, Dallas	160	at Dallas	16
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Lost Creek Reservoir near Jacksboro	36	White Rock Creek at Greenville Avenue, Dallas	170
Lyndon B. Johnson National Grasslands near Alvord		Time Rock Creek at Greenvine Avenue, Danas	1/1

# **CALENDAR FOR WATER YEAR 2002**

# 2001

	OCTOBER NOVEMBER							DECEMBER													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6					1	2	3							1	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	
														30	31						
2002																					
	JANUARY						FEBRUARY							MARCH							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
		1	2	3	4	5						1	2						1	2	
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	
														31							
		A	PRI	L			MAY							JUNE							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6				1	2	3	4							1	
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15	
21	22		24	25	26	27	19	20	21			24	25	16			19			22	
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29	
														30							
		J	IULY	7			AUGUST								SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28	
28	29	30	31				25	26	27	28	29	30	31	29	30						

# **CONVERSION FACTORS**

Multiply	Ву	To obtain							
	Length								
inch (in.)	$2.54 \times 10^{1}$	millimeter							
	$2.54 \times 10^{-2}$	meter							
foot (ft)	$3.048 \times 10^{-1}$	meter							
mile (mi)	$1.609 \times 10^0$	kilometer							
	Area								
acre	$4.047 \times 10^3$	square meter							
	$4.047 \times 10^{-1}$	square hectometer							
	$4.047 \times 10^{-3}$	square kilometer							
square mile (mi <sup>2</sup> )	$2.590 \times 10^{0}$	square kilometer							
	Volume								
gallon (gal)	$3.785 \times 10^{0}$	liter							
guiron (gur)	$3.785 \times 10^{0}$	cubic decimeter							
	$3.785 \times 10^{-3}$	cubic meter							
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter							
	$3.785 \times 10^{-3}$	cubic hectometer							
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^{1}$	cubic decimeter							
	$2.832 \times 10^{-2}$	cubic meter							
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	$2.447 \times 10^3$	cubic meter							
	$2.447 \times 10^{-3}$	cubic hectometer							
acre-foot (acre-ft)	$1.233 \times 10^3$	cubic meter							
,	$1.233 \times 10^{-3}$	cubic hectometer							
	$1.233 \times 10^{-6}$	cubic kilometer							
	Flow								
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^{1}$	liter per second							
cuesto recorpor second (re 75)	$2.832 \times 10^{1}$	cubic decimeter per second							
	$2.832 \times 10^{-2}$	cubic meter per second							
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second							
	$6.309 \times 10^{-2}$	cubic decimeter per second							
	6.309x10 <sup>-5</sup>	cubic meter per second							
million gallons per day (Mgal/d)	$4.381 \times 10^{1}$	cubic decimeter per second							
	$4.381 \times 10^{-2}$	cubic meter per second							
Mass									
ton (short)	9.072x10 <sup>-1</sup>	megagram or metric ton							

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows: °F =  $(1.8 \times ^{\circ}C) + 32$